

ATM MODULE FOR BLIND PEOPLE WITH BRAILLE KEYPAD

¹Ankita Yadav, ²Dr.Manasi Dixit

¹ M.Tech in Electronics and Telecommunication Engineering, ²Professor in Department of Electronics Engineering,

^{1,2}Department of Electronics Engineering,

^{1,2} Kit's College of Engineering (Autonomous), Kolhapur Maharashtra, India

Abstract : This paper proposes design of a module that provides Braille facility and audible instructions to access an Automatic Teller Machine (ATM) so that a blind person will be empowered to access the ATM machine independently. In this project implementation of a ATM module is completed by using voice command and face detection. User can select their respective demand through voice command. After inserting the RFID card, camera captures the user's photo and store into the database. The blind people can even choose whether to check balance or to withdraw cash by voice command using Braille supported keypad. Normal person can select the processes is same as that of existing ATM.

Keywords - ATM module, Braille keypad, RFID card, and Audible instruction set.

I. INTRODUCTION

The blind people have problem for money transaction. Since ATMs lack Braille systems keypad support, the blind person finds it difficult of keying in PIN numbers. It is necessary to help the blind people for access to banking services. Since many of the blind people usually are not comfortable with internet or mobile banking. They prefer an assistant who is a normal person to help them complete their banking activity. They tell their PIN to assistant who can complete the transactions for them. The banking sector should work towards improving accessibility to banking services for blind person. There is a need to develop blind friendly ATMs that can be used effectively by the blinds without the assistance of normal people who may take advantage of their visually challenged status. It is an essential to provide Braille facility to blind customers. The module provides information of procedure to the blind people. A blind person makes his choice using the Braille keyboard or types his ATM personal identification number (PIN). He will use the customer friendly audio instruction set through headphones to support the banking transactions.

II. METHODOLOGY

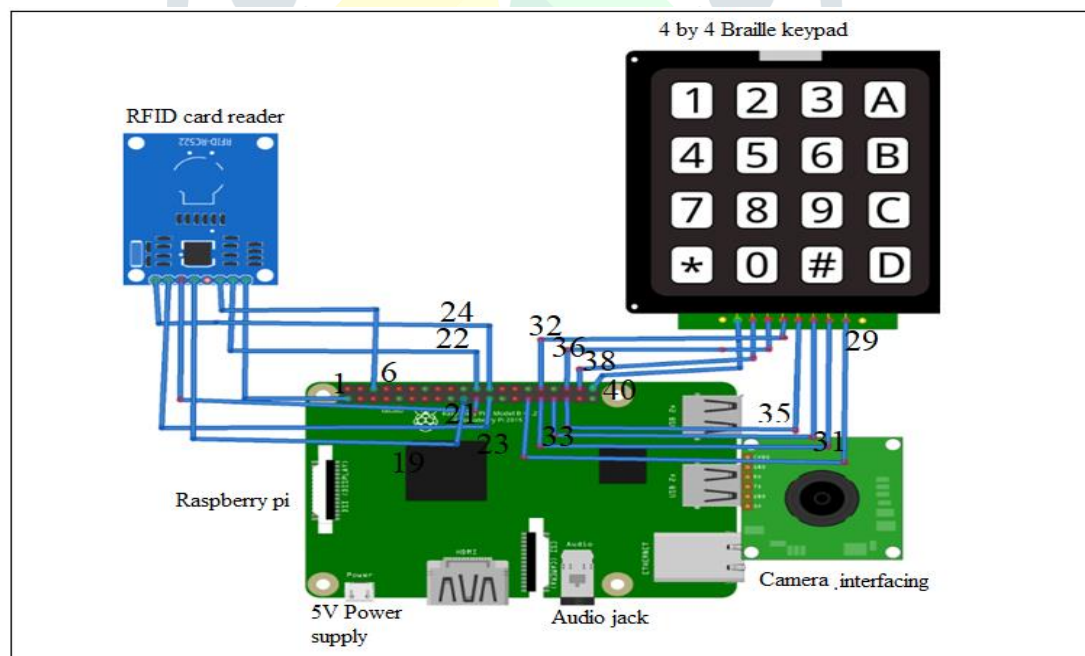


Figure 1. Circuit diagram of Braille supported ATM module to help blind people

In above block diagram raspberry pi is main heart of this system. It acts as a host processor. 5V power supply is given to the raspberry pi. Raspberry pi is having in built camera port. Using this port camera is mounted. The stepwise procedure is explained as follows.

2.1 Insert the RFID Card and Remove It

The RFID card reader is connected to the raspberry pi. When blind person enters in the ATM room then listens the audio command “ please insert the ATM card” through headphones. Then user can insert the RFID Card as a ATM card.

2.2 Read the RFID Card and Capture the User's Photo

RFID card reader contains crystal oscillator. When RFID card is inserted in its slot card reader converts electromagnetic signal into the electrical signal and reads the RFID number as a ATM number. When ATM number is read then camera captures the user's photo and this captured photo is mailed to the bank's server. This system is connected to the raspberry pi which acts as a host processor between ATM server and bank's server. Raspberry pi gives user's detail information to the bank's server.

2.3 If Authentication is Completed Then Enter the PIN By Using Braille Keypad

When authentication of user is completed then user listens the audio instruction "please enter your PIN number". User can give the PIN by using Braille keypad. Each number in PIN pressed by user is audible to him/her by using headphones. This Pin is given to the raspberry pi. It checks whether the number is matched or not. If pin is not matched then user hears the command "please enter your correct PIN".

2.4 If PIN is Matched Then Listen The Audio Instruction Set and Select The Process

When PIN is matched then user can choose any option by listening to the audio instruction set of processes.

2.5 Press "1" to Withdraw Cash

User can press "1" for cash withdrawal. Then enter the amount. The user listens a message about how much amount is withdrawn. Then user listens the instruction "collect the cash". Then the user has to collect the cash. If entered amount is greater than account balance then there is a voice command "you have insufficient balance please enter the valid amount".

2.6 Press "2" to Check Account Balance

If user wants to check the account balance then user has to press "2" and listen his/her current balance by using audio instruction.

2.7 Press "3" to Print Ledger

If user wants the account statement then user has to press "3" and take the print of account statement.

2.8 Press "4" to Change the PIN

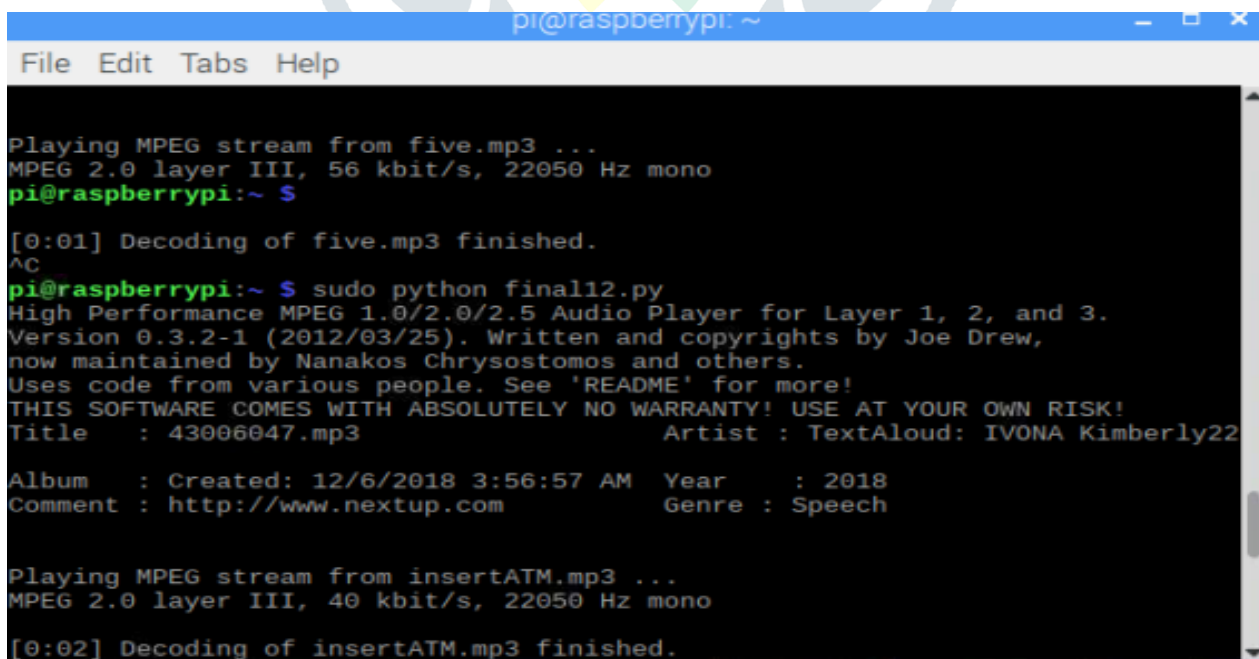
If user wants to change the PIN then user has to press "4". Then first user enters the old PIN. It is given to the raspberry pi. The raspberry pi is connected to the bank's server and bank's server checks if it is correct or not. If it is incorrect then user listens "please enter the correct pin". If old PIN is matched then user listens "enter the new PIN".

2.9 To Exit Press "Cancel"

If user wants to exit the process then user has to press the "cancel" button. User listens "for another transaction processes enter the PIN and select the new transaction process". All these processes are controlled by raspberry pi.

III. RESULTS

3.1 Insert the RFID Card



```

pi@raspberrypi: ~
File Edit Tabs Help
Playing MPEG stream from five.mp3 ...
MPEG 2.0 layer III, 56 kbit/s, 22050 Hz mono
pi@raspberrypi:~ $
[0:01] Decoding of five.mp3 finished.
^C
pi@raspberrypi:~ $ sudo python final12.py
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
Title   : 43006047.mp3           Artist  : TextAloud: IVONA Kimberly22
Album   : Created: 12/6/2018 3:56:57 AM Year   : 2018
Comment : http://www.nextup.com Genre    : Speech

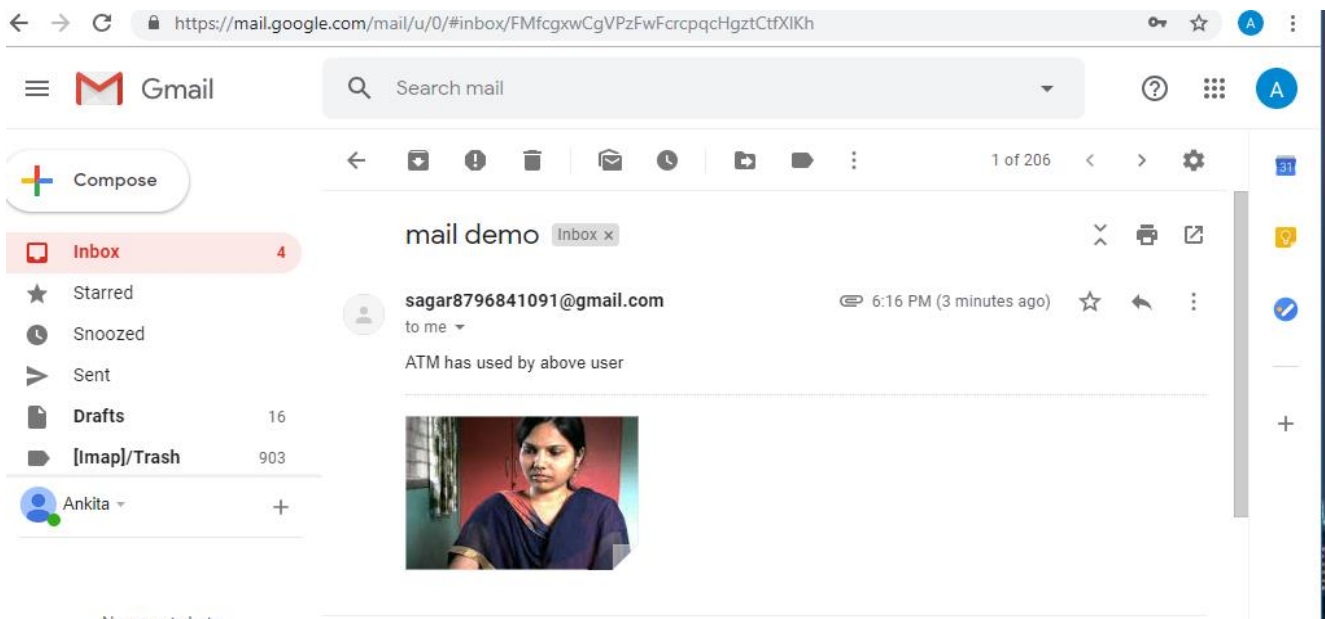
Playing MPEG stream from insertATM.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono
[0:02] Decoding of insertATM.mp3 finished.

```

3.2 Read the RFID Number and Capture the User's Photo

```
pi@raspberrypi: ~  
File Edit Tabs Help  
883395840882  
-- Opening /dev/video0...  
Trying source module v4l2...  
/dev/video0 opened.  
No input was specified, using the first.  
-- Capturing frame...  
skipping 3 frames...  
capturing 1 frames...  
captured 4 frames in 0.12 seconds. (33 fps)  
-- Processing captured image...  
Setting output format to JPEG, quality 50  
Writing JPEG image to '/home/pi/user.jpg'.  
-- Opening /dev/video0...
```

3.3 Mail the Captured Photo to Bank Server



3.4 If Authentication is completed then Enter the PIN

```

pi@raspberrypi: ~
File Edit Tabs Help
pi@raspberrypi:~ $ sudo python key1224.py
python: can't open file 'key1224.py': [Errno 2] No such file or directory
pi@raspberrypi:~ $ sudo python key1124.py
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
Title : 43003769.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/6/2018 2:40:25 AM Year : 2018
Comment : http://www.nextup.com Genre : Speech

Playing MPEG stream from pin.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

[0:01] Decoding of pin.mp3 finished.
    
```

3.5 Enter The PIN

```

pi@raspberrypi: ~
File Edit Tabs Help
Album : Created: 12/6/2018 2:40:25 AM Year : 2018
Comment : http://www.nextup.com Genre : Speech

Playing MPEG stream from pin.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

[0:01] Decoding of pin.mp3 finished.
2
two
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 42965729.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/4/2018 9:50:47 PM Year : 2018
Comment : Genre : Speech

Playing MPEG stream from two.mp3 ...
MPEG 2.0 layer III, 8 kbit/s, 22050 Hz mono

[0:01] Decoding of two.mp3 finished.
    
```

```

pi@raspberrypi: ~
File Edit Tabs Help
Album : Created: 12/4/2018 9:50:47 PM Year : 2018
Comment : Genre : Speech

Playing MPEG stream from two.mp3 ...
MPEG 2.0 layer III, 8 kbit/s, 22050 Hz mono

[0:01] Decoding of two.mp3 finished.
3
three
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 42965983.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/4/2018 10:09:56 PM Year : 2018
Comment : Genre : Speech

Playing MPEG stream from three.mp3 ...
MPEG 2.0 layer III, 56 kbit/s, 22050 Hz mono

[0:01] Decoding of three.mp3 finished.
    
```

```

pi@raspberrypi: ~
File Edit Tabs Help
Album : Created: 12/4/2018 10:09:56 PM Year : 2018
Comment : Genre : Speech

Playing MPEG stream from three.mp3 ...
MPEG 2.0 layer III, 56 kbit/s, 22050 Hz mono

[0:01] Decoding of three.mp3 finished.
4
four
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 42966060.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/4/2018 10:12:45 PM Year : 2018
Comment : Genre : Speech

Playing MPEG stream from four.mp3 ...
MPEG 2.0 layer III, 56 kbit/s, 22050 Hz mono

[0:01] Decoding of four.mp3 finished.

```

```

pi@raspberrypi: ~
File Edit Tabs Help
[0:01] Decoding of three.mp3 finished.
4
four
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 42966060.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/4/2018 10:12:45 PM Year : 2018
Comment : Genre : Speech

Playing MPEG stream from four.mp3 ...
MPEG 2.0 layer III, 56 kbit/s, 22050 Hz mono

[0:01] Decoding of four.mp3 finished.
5
five
matched
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!

```

3.6If PIN is Matched Then listen the audio instructions

```

pi@raspberrypi: ~
File Edit Tabs Help
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 42995699.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/5/2018 8:20:45 PM Year : 2018
Comment : Genre : Speech

Playing MPEG stream from five.mp3 ...
MPEG 2.0 layer III, 56 kbit/s, 22050 Hz mono

[0:01] Decoding of five.mp3 finished.
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 43006176.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/6/2018 4:00:50 AM Year : 2018
Comment : http://www.nextup.com Genre : Speech

Playing MPEG stream from process.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

[0:01] Decoding of process.mp3 finished.

```


3.6.1 Press One For Withdraw Cash

```
pi@raspberrypi: ~  
File Edit Tabs Help  
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.  
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,  
now maintained by Nanakos Chrysostomos and others.  
Uses code from various people. See 'README' for more!  
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!  
tcgetattr(): Inappropriate ioctl for device  
Title : 43006379.mp3 Artist : TextAloud: IVONA Kimberly22  
Album : Created: 12/6/2018 4:05:51 AM Year : 2018  
Comment : http://www.nextup.com Genre : Speech  
  
Playing MPEG stream from pressONE.mp3 ...  
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono  
  
[0:01] Decoding of pressONE.mp3 finished.  
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.  
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,  
now maintained by Nanakos Chrysostomos and others.  
Uses code from various people. See 'README' for more!  
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!  
tcgetattr(): Inappropriate ioctl for device  
Title : 43006385.mp3 Artist : TextAloud: IVONA Kimberly22  
Album : Created: 12/6/2018 4:06:05 AM Year : 2018  
Comment : http://www.nextup.com Genre : Speech
```

3.6.2 Press Two For Balance Enquiry

```
pi@raspberrypi: ~  
File Edit Tabs Help  
Playing MPEG stream from pressTWO.mp3 ...  
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono  
  
[0:01] Decoding of pressTWO.mp3 finished.  
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.  
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,  
now maintained by Nanakos Chrysostomos and others.  
Uses code from various people. See 'README' for more!  
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!  
tcgetattr(): Inappropriate ioctl for device  
Title : 43006389.mp3 Artist : TextAloud: IVONA Kimberly22  
Album : Created: 12/6/2018 4:06:09 AM Year : 2018  
Comment : http://www.nextup.com Genre : Speech  
  
Playing MPEG stream from pressTHREE.mp3 ...  
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono  
  
[0:01] Decoding of pressTHREE.mp3 finished.  
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.  
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,  
now maintained by Nanakos Chrysostomos and others.  
Uses code from various people. See 'README' for more!  
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!  
tcgetattr(): Inappropriate ioctl for device
```

3.6.3 Press Three For Print Ledger

```
pi@raspberrypi: ~  
File Edit Tabs Help  
Playing MPEG stream from pressTWO.mp3 ...  
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono  
  
[0:01] Decoding of pressTWO.mp3 finished.  
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.  
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,  
now maintained by Nanakos Chrysostomos and others.  
Uses code from various people. See 'README' for more!  
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!  
tcgetattr(): Inappropriate ioctl for device  
Title : 43006389.mp3 Artist : TextAloud: IVONA Kimberly22  
Album : Created: 12/6/2018 4:06:09 AM Year : 2018  
Comment : http://www.nextup.com Genre : Speech  
  
Playing MPEG stream from pressTHREE.mp3 ...  
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono  
  
[0:01] Decoding of pressTHREE.mp3 finished.  
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.  
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,  
now maintained by Nanakos Chrysostomos and others.  
Uses code from various people. See 'README' for more!  
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!  
tcgetattr(): Inappropriate ioctl for device
```

3.6.4 Press Four For to Change the PIN

```

pi@raspberrypi: ~
File Edit Tabs Help
Title : 43006394.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/6/2018 4:06:13 AM Year : 2018
Comment : http://www.nextup.com Genre : Speech

Playing MPEG stream from pressFOUR.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

[0:01] Decoding of pressFOUR.mp3 finished.
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 43006452.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/6/2018 4:07:42 AM Year : 2018
Comment : http://www.nextup.com Genre : Speech

Playing MPEG stream from pressCANCEL.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

```

3.6.5 Press Cancel to Exit the Process

```

pi@raspberrypi: ~
File Edit Tabs Help
Title : 43006394.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/6/2018 4:06:13 AM Year : 2018
Comment : http://www.nextup.com Genre : Speech

Playing MPEG stream from pressFOUR.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

[0:01] Decoding of pressFOUR.mp3 finished.
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 43006452.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/6/2018 4:07:42 AM Year : 2018
Comment : http://www.nextup.com Genre : Speech

Playing MPEG stream from pressCANCEL.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

```

3.7 If PIN is not Matched Then Enter the Correct PIN

```

pi@raspberrypi: ~
File Edit Tabs Help
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
Title : 43003769.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/6/2018 2:40:25 AM Year : 2018
Comment : http://www.nextup.com Genre : Speech

Playing MPEG stream from pin.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

[0:01] Decoding of pin.mp3 finished.
1
2
4
5
not matched
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
Title : 43003769.mp3 Artist : TextAloud: IVONA Kimberly22

```


3.8 Enter the Pin and Select the Process

3.9 Press 1 then Enter the Amount. If Entered Amount is Greater than Balance then it is Insufficient Balance.

```

pi@raspberrypi: ~
File Edit Tabs Help
[0:01] Decoding of pressFOUR.mp3 finished.
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 43006452.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/6/2018 4:07:42 AM Year : 2018
Comment : http://www.nextup.com Genre : Speech

Playing MPEG stream from pressCANCLE.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

[0:01] Decoding of pressCANCLE.mp3 finished.
select next process
1
enter amount
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!

```

```

pi@raspberrypi: ~
File Edit Tabs Help
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 42965702.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/4/2018 9:49:08 PM Year : 2018
Comment : Genre : Speech

Playing MPEG stream from one.mp3 ...
MPEG 2.0 layer III, 8 kbit/s, 22050 Hz mono
Title : 46794677.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 4/17/2019 7:43:54 AM Year : 2019
Comment : http://www.nextup.com Genre : Speech

Playing MPEG stream from enterAmount.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

[0:01] Decoding of one.mp3 finished.

[0:01] Decoding of enterAmount.mp3 finished.
2
['2']
0

```

```

pi@raspberrypi: ~
File Edit Tabs Help
0
['2', '0']
0
['2', '0', '0']
0
['2', '0', '0', '0']
0
['2', '0', '0', '0', '0']
S
['2', '0', '0', '0', '0', 'S']
20000
-15000
insufficient balance
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device

Playing MPEG stream from insufficient.mp3 ...
MPEG 2.0 layer III, 32 kbit/s, 24000 Hz mono

[0:03] Decoding of insufficient.mp3 finished.

```


3.10 If Press 2 for Balance Checking then

```

pi@raspberrypi: ~
File Edit Tabs Help
Title : 46822917.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 4/18/2019 5:34:14 AM Year : 2019
Comment : http://www.nextup.com Genre : Speech

Playing MPEG stream from transaction.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

[0:03] Decoding of transaction.mp3 finished.
select next process
2
Your current balance is
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 42965729.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/4/2018 9:50:47 PM Year : 2018
Comment : Genre : Speech

Playing MPEG stream from two.mp3 ...
MPEG 2.0 layer III, 8 kbit/s, 22050 Hz mono

```

```

pi@raspberrypi: ~
File Edit Tabs Help
[0:01] Decoding of two.mp3 finished.
-15000
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 46816315.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 4/18/2019 1:01:19 AM Year : 2019
Comment : http://www.nextup.com Genre : Speech

Playing MPEG stream from currentbalance.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

[0:01] Decoding of currentbalance.mp3 finished.
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device

Playing MPEG stream from hello.mp3 ...

```

3.11 If User withdraw the Cash 2000 Rs then

```
pi@raspberrypi: ~  
File Edit Tabs Help  
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,  
now maintained by Nanakos Chrysostomos and others.  
Uses code from various people. See 'README' for more!  
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!  
tcgetattr(): Inappropriate ioctl for device  
Title : 42965702.mp3 Artist : TextAloud: IVONA Kimberly22  
Album : Created: 12/4/2018 9:49:08 PM Year : 2018  
Comment : Genre : Speech  
  
Playing MPEG stream from one.mp3 ...  
MPEG 2.0 layer III, 8 kbit/s, 22050 Hz mono  
Title : 46794677.mp3 Artist : TextAloud: IVONA Kimberly22  
Album : Created: 4/17/2019 7:43:54 AM Year : 2019  
Comment : http://www.nextup.com Genre : Speech  
  
Playing MPEG stream from enterAmount.mp3 ...  
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono  
  
[0:01] Decoding of one.mp3 finished.  
  
[0:01] Decoding of enterAmount.mp3 finished.  
2  
['2']  
0
```

```
pi@raspberrypi: ~  
File Edit Tabs Help  
['2']  
0  
['2', '0']  
0  
['2', '0', '0']  
0  
['2', '0', '0', '0']  
S  
['2', '0', '0', '0', 'S']  
2000  
3000  
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.  
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,  
now maintained by Nanakos Chrysostomos and others.  
Uses code from various people. See 'README' for more!  
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!  
tcgetattr(): Inappropriate ioctl for device  
  
Playing MPEG stream from hello.mp3 ...  
MPEG 2.0 layer III, 32 kbit/s, 24000 Hz mono  
  
[0:01] Decoding of hello.mp3 finished.  
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.  
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
```

3.12 Then Collect the Cash

```
pi@raspberrypi: ~  
File Edit Tabs Help  
now maintained by Nanakos Chrysostomos and others.  
Uses code from various people. See 'README' for more!  
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!  
tcgetattr(): Inappropriate ioctl for device  
  
Playing MPEG stream from collect.mp3 ...  
MPEG 2.0 layer III, 32 kbit/s, 24000 Hz mono  
  
[0:03] Decoding of collect.mp3 finished.  
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.  
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,  
now maintained by Nanakos Chrysostomos and others.  
Uses code from various people. See 'README' for more!  
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!  
tcgetattr(): Inappropriate ioctl for device  
Title : 46822917.mp3 Artist : TextAloud: IVONA Kimberly22  
Album : Created: 4/18/2019 5:34:14 AM Year : 2019  
Comment : http://www.nextup.com Genre : Speech  
  
Playing MPEG stream from transaction.mp3 ...  
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono  
  
[0:03] Decoding of transaction.mp3 finished.
```

3.13 If User Withdraw the Cash 2000Rs and Press 2 for Balance Checking then

```

pi@raspberrypi: ~
File Edit Tabs Help
Title : 46822917.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 4/18/2019 5:34:14 AM Year : 2019
Comment : http://www.nextup.com Genre : Speech

Playing MPEG stream from transaction.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

[0:03] Decoding of transaction.mp3 finished.
select next process
2
Your current balance is
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 42965729.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/4/2018 9:50:47 PM Year : 2018
Comment : Genre : Speech

Playing MPEG stream from two.mp3 ...
MPEG 2.0 layer III, 8 kbit/s, 22050 Hz mono

```

```

pi@raspberrypi: ~
File Edit Tabs Help
Album : Created: 12/4/2018 9:50:47 PM Year : 2018
Comment : Genre : Speech

Playing MPEG stream from two.mp3 ...
MPEG 2.0 layer III, 8 kbit/s, 22050 Hz mono

[0:01] Decoding of two.mp3 finished.
3000
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 46816315.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 4/18/2019 1:01:19 AM Year : 2019
Comment : http://www.nextup.com Genre : Speech

Playing MPEG stream from currentbalance.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

[0:01] Decoding of currentbalance.mp3 finished.
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,

```

3.14 If User Can't Withdraw Any Cash and Press 2 then Current Balance is

```

pi@raspberrypi: ~
File Edit Tabs Help
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 43006452.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/6/2018 4:07:42 AM Year : 2018
Comment : http://www.nextup.com Genre : Speech

Playing MPEG stream from pressCANCLE.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

[0:01] Decoding of pressCANCLE.mp3 finished.
select next process
2
Your current balance is
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 42965729.mp3 Artist : TextAloud: IVONA Kimberly22

```



```
pi@raspberrypi: ~  
File Edit Tabs Help  
Album : Created: 12/4/2018 9:50:47 PM Year : 2018  
Comment : Genre : Speech  
  
Playing MPEG stream from two.mp3 ...  
MPEG 2.0 layer III, 8 kbit/s, 22050 Hz mono  
  
[0:01] Decoding of two.mp3 finished.  
5000  
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.  
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,  
now maintained by Nanakos Chrysostomos and others.  
Uses code from various people. See 'README' for more!  
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!  
tcgetattr(): Inappropriate ioctl for device  
Title : 46816315.mp3 Artist : TextAloud: IVONA Kimberly22  
  
Album : Created: 4/18/2019 1:01:19 AM Year : 2019  
Comment : http://www.nextup.com Genre : Speech  
  
Playing MPEG stream from currentbalance.mp3 ...  
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono  
  
[0:01] Decoding of currentbalance.mp3 finished.  
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
```

3.15 If Press 3 then Get a Account Statement and Collect the Print For Statement

```
pi@raspberrypi: ~  
File Edit Tabs Help  
Title : 46822917.mp3 Artist : TextAloud: IVONA Kimberly22  
Album : Created: 4/18/2019 5:34:14 AM Year : 2019  
Comment : http://www.nextup.com Genre : Speech  
  
Playing MPEG stream from transaction.mp3 ...  
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono  
  
[0:03] Decoding of transaction.mp3 finished.  
select next process  
3  
Account statement is  
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.  
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,  
now maintained by Nanakos Chrysostomos and others.  
Uses code from various people. See 'README' for more!  
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!  
tcgetattr(): Inappropriate ioctl for device  
Title : 42965983.mp3 Artist : TextAloud: IVONA Kimberly22  
  
Album : Created: 12/4/2018 10:09:56 PM Year : 2018  
Comment : Genre : Speech  
  
Playing MPEG stream from three.mp3 ...  
MPEG 2.0 layer III, 56 kbit/s, 22050 Hz mono
```

```
pi@raspberrypi: ~  
File Edit Tabs Help  
Album : Created: 4/17/2019 7:59:17 AM Year : 2019  
Comment : http://www.nextup.com Genre : Speech  
  
Playing MPEG stream from collectprint.mp3 ...  
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono  
  
[0:01] Decoding of collectprint.mp3 finished.  
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.  
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,  
now maintained by Nanakos Chrysostomos and others.  
Uses code from various people. See 'README' for more!  
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!  
tcgetattr(): Inappropriate ioctl for device  
Title : 46822917.mp3 Artist : TextAloud: IVONA Kimberly22  
  
Album : Created: 4/18/2019 5:34:14 AM Year : 2019  
Comment : http://www.nextup.com Genre : Speech  
  
Playing MPEG stream from transaction.mp3 ...  
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono  
  
[0:03] Decoding of transaction.mp3 finished.
```

3.16 If Press Four then

```

pi@raspberrypi: ~
File Edit Tabs Help
Playing MPEG stream from transaction.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

[0:03] Decoding of transaction.mp3 finished.
select next process
4
change the pin
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title   : 42966060.mp3           Artist  : TextAloud: IVONA Kimberly22

Album   : Created: 12/4/2018 10:12:45 PM Year   : 2018
Comment :                      Genre    : Speech

Playing MPEG stream from four.mp3 ...
MPEG 2.0 layer III, 56 kbit/s, 22050 Hz mono

[0:01] Decoding of four.mp3 finished.

```

3.16.1 Enter the Old PIN

```

pi@raspberrypi: ~
File Edit Tabs Help
Album   : Created: 12/4/2018 10:12:45 PM Year   : 2018
Comment :                      Genre    : Speech

Playing MPEG stream from four.mp3 ...
MPEG 2.0 layer III, 56 kbit/s, 22050 Hz mono

[0:01] Decoding of four.mp3 finished.
enter your old pin
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title   : 46795056.mp3           Artist  : TextAloud: IVONA Kimberly22

Album   : Created: 4/17/2019 8:00:17 AM Year   : 2019
Comment : http://www.nextup.com   Genre   : Speech

Playing MPEG stream from oldpin.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono

[0:01] Decoding of oldpin.mp3 finished.

```

```

pi@raspberrypi: ~
File Edit Tabs Help
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title   : 42966060.mp3           Artist  : TextAloud: IVONA Kimberly22

Album   : Created: 12/4/2018 10:12:45 PM Year   : 2018
Comment :                      Genre    : Speech

Playing MPEG stream from four.mp3 ...
MPEG 2.0 layer III, 56 kbit/s, 22050 Hz mono

[0:01] Decoding of four.mp3 finished.
5
five
matched
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title   : 42995699.mp3           Artist  : TextAloud: IVONA Kimberly22

```


3.16.2 If Old PIN is Matched then Enter the New PIN

```

pi@raspberrypi: ~
File Edit Tabs Help
[0:01] Decoding of newpin.mp3 finished.
one
1
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title   : 42965702.mp3           Artist  : TextAloud: IVONA Kimberly22
Album   : Created: 12/4/2018 9:49:08 PM Year   : 2018
Comment :                      Genre    : Speech

Playing MPEG stream from one.mp3 ...
MPEG 2.0 layer III, 8 kbit/s, 22050 Hz mono

[0:01] Decoding of one.mp3 finished.
Two
2
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.

```

```

pi@raspberrypi: ~
File Edit Tabs Help
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title   : 42965729.mp3           Artist  : TextAloud: IVONA Kimberly22
Album   : Created: 12/4/2018 9:50:47 PM Year   : 2018
Comment :                      Genre    : Speech

Playing MPEG stream from two.mp3 ...
MPEG 2.0 layer III, 8 kbit/s, 22050 Hz mono

[0:01] Decoding of two.mp3 finished.
three
3
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title   : 42965983.mp3           Artist  : TextAloud: IVONA Kimberly22
Album   : Created: 12/4/2018 10:09:56 PM Year  : 2018
Comment :                      Genre    : Speech

```

3.16.3 Set the New PIN

```

pi@raspberrypi: ~
File Edit Tabs Help
Playing MPEG stream from three.mp3 ...
MPEG 2.0 layer III, 56 kbit/s, 22050 Hz mono

[0:01] Decoding of three.mp3 finished.
One
4
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title   : 42965702.mp3           Artist  : TextAloud: IVONA Kimberly22
Album   : Created: 12/4/2018 9:49:08 PM Year   : 2018
Comment :                      Genre    : Speech

Playing MPEG stream from one.mp3 ...
MPEG 2.0 layer III, 8 kbit/s, 22050 Hz mono

[0:01] Decoding of one.mp3 finished.
('new password has set = ', ['1', '2', '3', '4'])
s

```


3.17 If User wants to do Another Transaction then Press the Repeat Button and Select the Next Process

```

pi@raspberrypi: ~
File Edit Tabs Help
Comment : Genre : Speech
Playing MPEG stream from one.mp3 ...
MPEG 2.0 layer III, 8 kbit/s, 22050 Hz mono
[0:01] Decoding of one.mp3 finished.
['new password has set = ', ['1', '2', '3', '4']]
Do you want to do another transaction
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 46822917.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 4/18/2019 5:34:14 AM Year : 2019
Comment : http://www.nextup.com Genre : Speech
Playing MPEG stream from transaction.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono
[0:03] Decoding of transaction.mp3 finished.

```

3.18 If User wants to exit the Process then Press Cancel For Another Transaction Enter the PIN Choose the Option

```

pi@raspberrypi: ~
File Edit Tabs Help
Playing MPEG stream from hello.mp3 ...
MPEG 2.0 layer III, 32 kbit/s, 24000 Hz mono
[0:01] Decoding of hello.mp3 finished.
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 46822917.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 4/18/2019 5:34:14 AM Year : 2019
Comment : http://www.nextup.com Genre : Speech
Playing MPEG stream from transaction.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono
[0:03] Decoding of transaction.mp3 finished.
exit the process
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!

```

```

pi@raspberrypi: ~
File Edit Tabs Help
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
tcgetattr(): Inappropriate ioctl for device
Title : 46822591.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 4/18/2019 5:24:56 AM Year : 2019
Comment : http://www.nextup.com Genre : Speech
Playing MPEG stream from exist.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono
[0:01] Decoding of exist.mp3 finished.
High Performance MPEG 1.0/2.0/2.5 Audio Player for Layer 1, 2, and 3.
Version 0.3.2-1 (2012/03/25). Written and copyrights by Joe Drew,
now maintained by Nanakos Chrysostomos and others.
Uses code from various people. See 'README' for more!
THIS SOFTWARE COMES WITH ABSOLUTELY NO WARRANTY! USE AT YOUR OWN RISK!
Title : 43003769.mp3 Artist : TextAloud: IVONA Kimberly22
Album : Created: 12/6/2018 2:40:25 AM Year : 2018
Comment : http://www.nextup.com Genre : Speech
Playing MPEG stream from pin.mp3 ...
MPEG 2.0 layer III, 40 kbit/s, 22050 Hz mono
[0:01] Decoding of pin.mp3 finished.

```

IV. CONCLUSION

Blind people face many problems in their lives. One of them would be being dependent on someone else for financial transactions. In this project Braille supported ATM module is provided to the blind people. The authentication is provided by using the RFID card and face detection. The keys of an ATM are designed in a certain way to assist the blind people. The numbers are set up in a way that makes them easy to find. There is a provision using which the blind people can even choose whether to check

balance or to withdraw cash by voice command. Hence, with the help of this system the blind people complete their banking functions independently.

V. ACKNOWLEDGEMENT

I would like to thank 3D technician, Ms. Vaibhavi sutar and students in blind school for their valuable time and providing informative contents.

REFERENCES

- [1] A.Ramathilagam “IRIS BASED CARDLESS AUTOMATED TELLER MACHINE” International Journal For Technological Research In Engineering Volume 5, Issue 7, March-2018.
- [2] Miss Sanchita R Jantre1, Mr. Ratnakar A. Kharade “GSM Based ATM Security ATM Banking” International Advanced Research Journal in Science, Engineering and Technology Vol. 4, Special Issue 2, January 2017.
- [3] Sharma SPG, Pruthvi S Nayak, Siddarth V, Santhosh K ,Shilpa SG “Blind Friendly ATM Software System” Perspectives in Communication, Embedded-Systems and Signal-Processing (PiCES) ISSN: 2566-932X, Vol. 1, Issue 4, July 2017.
- [4] Aneesh Chandran “ATM FOR VISUALLY CHALLENGED PEOPLE” International Research Journal of Engineering and Technology (IRJET) Volume: 04 Issue: 03 | March -2017 .
- [5] Baby Ruksana M “A Dual Mode Secured ATM using Biometric Authentication and GSM Technology” SSRG International Journal of Computer Science and Engineering- (ICET’17) - Special Issue - March 2017.
- [6] Ankit Singla “Fraud Reduction in ATM Machines usingVoice Recognition” International Journal of Innovative Research in Science, Engineering and Technology Vol. 6, Issue 5, May 2017.
- [7] K Sasirekha “ATM MACHINE FOR BLIND PEOPLE” Int. J. Chem. Sci.: 14(S3), 2016, 911-916 ISSN 0972-768X .
- [8] Pranav Gebad, Prof. N. A. Dawande “ATM Transaction without Debit Card” International Journal of Advanced Research in Computer and Communication Engineering Vol. 5, Issue 7, July 2016.
- [9] S Mahaboob Hussein “Gesture Recognition Technology to Annihilate Burglaries amid ATM Transactions International Research Journal of Engineering and Technology (IRJET) Volume: 02 Issue: 09 | Dec-2015.
- [10]Sudhir Rao Rupanagudi “A High Speed Algorithm for Identifying Hand Gestures for an ATM Input System for the Blind” 2015 IEEE Bombay Section Symposium (IBSS).
- [11] Jaswinder Singh, Jaswinder Kaur “ Proposed Security System to Embed Fingerprinting and Voice Recognition for ATMs” International Journal of Advanced Research in Computer Science and Software Engineering Volume 5, Issue 5, May 2015.
- [12] Harshad Joshi, Priyanka Keche, Isha Padiya “GSM Based Anti-theft Transaction System” International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering Vol. 4, Issue 1, January 2015.
- [13]R.D.Salagar, Akshata Patil, “Voice Enabled ATM Machine with Iris Recognition For Authentication”, Proceedings of 3rd IRF InternationalConference,10th May-2014, Goa, India.

