# REPORT FOR ATM MACHNE

#### AS A PROJECT WORK FOR COURSE

# **PYTHON PROGRAMMING(INT213)**

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SEMESTER : 3RD

SCHOOL :SCHOOL OF COMPUTER SCIENCE AND

**ENGINEERING** 

NAME OF UNIVERSITY :LOVELY PROFESSIONAL UNIVERSITY

DATE OF SUBMISSION :20<sup>TH</sup> NOVEMBER 2021

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## **ATM MACHINE**

#### **ABSTRACT: -**

Automated Teller Machine (ATM) is an electronic telecommunications device, which enables customers to perform banking without the need for direct interaction with bank staff. For this, every account holder must have a unique id card for the individual account having a unique pin. On the absence of this card, whatever be the adverse situation the use of this ATM service is not permitted. So, an Internet of Things and Computer Vision based Smart ATM service is being proposed here, using Raspberry Pi microcontroller based embedded system, where each person will be their own identity, where Fingerprint, Face, OTP verifications are key features for security, which in turn reduces the issue of fraud transactions, fraud ATM cards, hence security issue gets resolved.

#### **ACKNOWLEDGEMENT: -**

I would like to thank our python teacher Ms. Ankita Wadhawan for her great inputs throughout the project.

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# **TEAM MEMBERS**

## M.P.DHANVEER PRAKASH

#### **CONTRIBUTIONS:-**

- 1.Coding(joined)
- 2. Report making
- 3.Testing

## **SPARSH SHARMA**

#### **CONTRIBUTIONS:-**

- 1.Coding(joined)
- 2. Collection of data
- 3. Solving errors
- 4.Reference

# CODE:-

```
import getpass
import string
import os
users = ['user1', 'user2', 'user3', 'user4', 'user5']
pins = ['1234', '1111', '2222','3333','4444']
amounts = [1000, 2000, 3000,5000,10000]
count = 0
while True:
user = input('\nENTER USER NAME: ')
user = user.lower()
if user in users:
if user == users[0]:
n = 0
```

```
elif user == users[1]:
n = 1
elif user == users[2]:
              n = 2
elif user == users[3]:
n = 3
else:
n = 4
break
else:
print('INVALID USERNAME')
while count < 5:
pin = str(getpass.getpass('PLEASE ENTER PIN: '))
if pin.isdigit():
if user == 'user1':
if pin == pins[0]:
break
else:
```

```
count += 1
print('INVALID PIN')
print()
        if user == 'user2':
if pin == pins[1]:
break
else:
count += 1
print('INVALID PIN')
print()
if user == 'user3':
if pin == pins[2]:
break
else:
count += 1
print('INVALID PIN')
```

```
print()
if user == 'user4':
if pin == pins[3]:
break
else:
count += 1
print('INVALID PIN')
print()
if user == 'user5':
if pin == pins[4]:
break
else:
count += 1
print('INVALID PIN')
print()
else:
print('PIN CONSISTS OF 4 DIGITS')
count += 1
```

```
if count == 5:
print('3 UNSUCCESFUL PIN ATTEMPTS, EXITING')
print('!!!!!YOUR CARD HAS BEEN LOCKED!!!!!')
exit()
print('LOGIN SUCCESFUL, CONTINUE')
print()
print(str.capitalize(users[n]), 'welcome to ATM')
print('-----')
while True:
response = input('SELECT FROM FOLLOWING OPTIONS:
\nStatement_(S) \nWithdraw_(W) \nChange PIN(P)
\nQuit (Q) : \n: \nQuit (Q) : \n: \n
valid_responses = ['s', 'w','p', 'q']
response = response.lower()
if response == 's':
```

```
print(str.capitalize(users[n]), 'YOU HAVE ',
amounts[n], 'RUPEES ON YOUR ACCOUNT.')
elif response == 'w':
          cash out = int(input('ENTER AMOUNT YOU
WOULD LIKE TO WITHDRAW: '))
if cash_out%100 != 0:
print('AMOUNT YOU WANT TO WITHDRAW MUST TO
MATCH 100 RUPEE NOTES')
elif cash_out > amounts[n]:
print('YOU HAVE INSUFFICIENT BALANCE')
else:
amounts[n] = amounts[n] - cash out
print('YOUR NEW BALANCE IS: ', amounts[n], 'RUPEE')
elif response == 'p':
new pin = str(getpass.getpass('ENTER A NEW PIN: '))
if new_pin.isdigit() and new_pin != pins[n] and
len(new pin) == 4:
```

```
new_ppin = str(getpass.getpass('CONFIRM NEW PIN: '))
if new_ppin != new_pin:
print('PIN MISMATCH')
            else:
pins[n] = new_pin
print('NEW PIN SAVED')
else:
print(' NEW PIN MUST CONSIST OF 4 DIGITS \nAND
MUST BE DIFFERENT TO PREVIOUS PIN')
elif response == 'q':
  print('THANKYOU FOR BANKING WITH US')
  exit()
else:
print('RESPONSE NOT VALID')
```

## Code Explanation:-

As this project is a simple simulated atm we have constrained the user limit and the options available in original atm such as:

- 1. Select the type of account
- 2.Fast cash
- 3. Receipt and some more

But in this project, we were able to add the most important options whis is used on mandatory basis such as:

- 1.Statement
- 2.Withdraw
- 3.Change pin

#### 4.Quit

Five users were given with five different pins to check the test case and also with five different fixed amounts on the account for ex. (user1 has Rs.1000 as balance in the account for which the pin has been set as 1234). If the pin entered by the user doesn't matches with fixed pin, then the screen displays "INVALID PIN" and also has a limit of 3 possible incorrect pins or else the "YOUR CARD HAS BEEN BLOCKED" will get displays and the program gets terminated/exit. If the entered pin is correct the program moves forward asking 4 options of 1. Statement, 2. Withdraw 3. Change pin, , 4. Quit. If the user presses "s" on the screen then the fixed balance amount gets displayed whereas the program keeps on running to make the user convenient to make other transaction. Same as if the user opts "w" then the amount which the user wants to withdraw will get deducted and the remaining amount gets displayed. Then there's an option of changing the pin which works until the code gets terminated and finally the last option is quit due to which the program gets ended up there instead of keep on running.

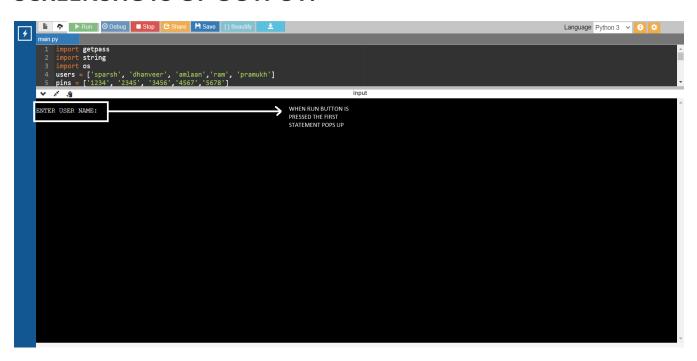
### **GITHUB LINK:-**

DHANVEER: https://github.com/mpdhanveer05-prakash/ATM-PYTHON

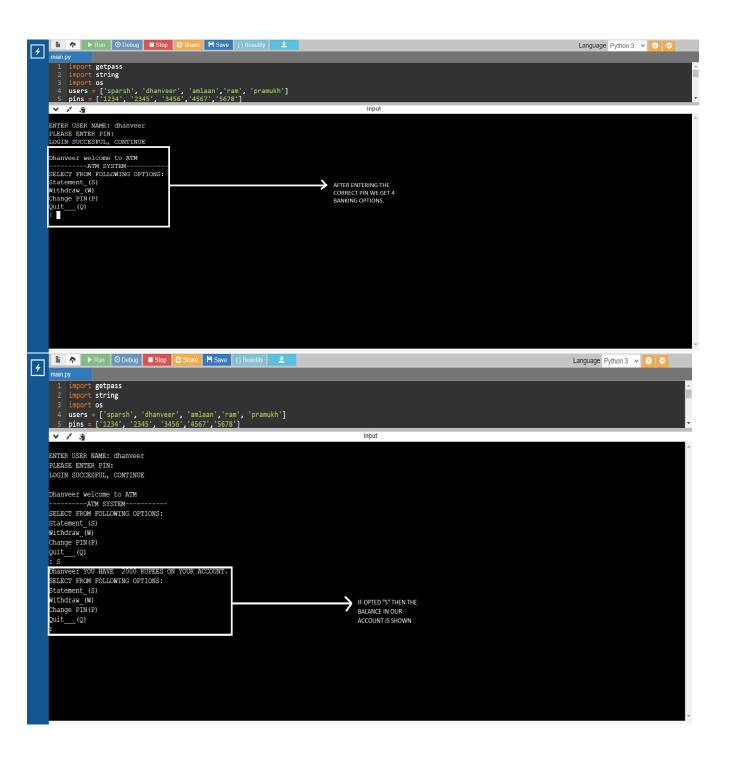
#### **SPARSH:**

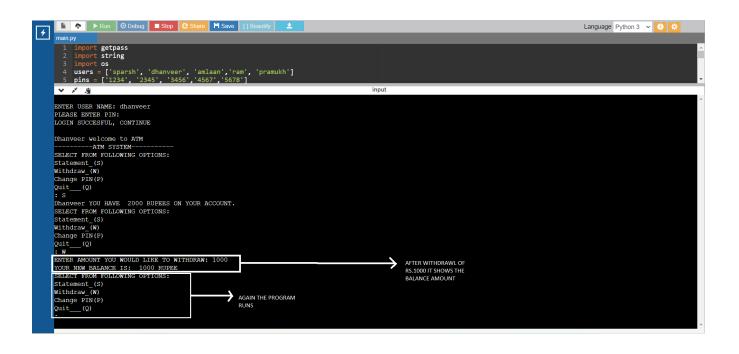
https://github.com/SparshSharm0210/Automated-Teller-Machine.git

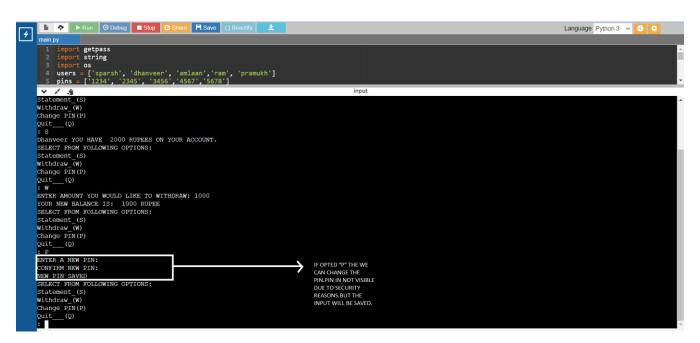
#### **SCREENSHOTS OF OUTPUT:-**

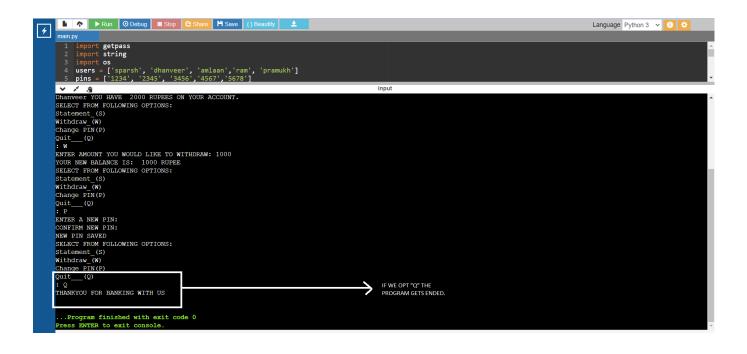












```
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ENTER UNER NAME: donn't be

Chaverer Fick Following options:

Chaver Fick Following options:

Statement (6)

The Total Continue options:

Statement (6)

The Total Continue options:

Statement (6)

Statemen
```

## **REFERENCE:-**

- 1.https://t.me/Curious\_Coder
- 2. https://www.geeksforgeeks.org/
- 3.GITHUB
- 4.GOOGLE
- **5.YOUTUBE**