PYTHON - TW-COURSE-PROJECT

TOPIC: ATM SYSTEM

S.E. ELECTRONICS, SEM 4, M.H. SABOO SIDDIK COLLEGE OF ENGINEERING

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DESCRIPTION:-

In this ATM SYSTEM program, various parameters like those in a real ATM machine of any bank are considered. Were in, the customer is made to insert his/her card and is asked by the program to enter his/her username and a valid pin. If the user is not listed in the bank's data then the program will leave a message stating 'INVALID USER' and will ask to try again till a proper and valid user ID is entered into. For pin verfication the user will be given 3 chances. In these 3 chances, if the user fails to provide with valid and correct pin, then his/her card will be blocked and will be asked to contact the branch hereby exiting the program. In this program function of depositing and withdrawing cash is also given i.e. one can deposit or withdraw cash in the multiples of 500 and 2000. One can also change his/her pin. After completion of transactions one can also see their bank statement. ***One of the main feature of the program made is that it first asks for valid user ID from user and then accepts the valid PIN provided. It's not like the currently used atm in which the user is asked for pin just by inserting the card ***

PROGRAM:

```
"""S.E. ELECTRONICS, SEM 4, MHSSCE"""
"""NAME: TAJ MOHAMMED SHAH -- 4119006
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""""TOPIC: ELECTRO ATM SYSTEM"""""
import getpass
# creating a lists of users, their PINs and bank statements
users = ['taj', 'hamza', 'advait', 'aakash']
pins = ['9006', '9007', '9008', '9009']
amounts = [4119006, 4119007, 4119008, 4119009]
count = 0
print("*
print("*
                   Welcome to ELECTRO ATM SYSTEM
print("*
```

```
# while loop checks existence of the entered username
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
   else:
     n = 3
   break
 else:
   print('----')
   print('************')
   print('INVALID USERNAME')
   print('************')
   print('----')
```

```
# comparing pin
while count <= 3:
  print('----')
  print('*************')
  pin = input('PLEASE ENTER PIN: ')
  print('**************')
  print('----')
  if pin.isdigit():
    if user == 'taj':
      if pin == pins[0]:
        break
      else:
        count += 1
      print('----')
      print('********')
      print('INVALID PIN')
      print('********')
      print('----')
      print()
```

```
if user == 'hamza':
  if pin == pins[1]:
    break
  else:
    count += 1
  print('----')
  print('********')
  print('INVALID PIN')
  print('*********')
  print('----')
  print()
if user == 'advait':
  if pin == pins[2]:
    break
  else:
    count += 1
  print('----')
  print('*********')
  print('INVALID PIN')
  print('********')
  print('----')
  print()
```

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

```
# in case of a valid pin-continuing, or exiting
 if count == 3:
  print('-----')
  print('3 UNSUCCESFUL PIN ATTEMPTS, EXITING')
  print('!!!!!YOUR CARD HAS BEEN LOCKED!!!!!')
  print('!!!!!!!!!!!PLEASE CONTACT YOUR BRANCH!!!!!!!!!!)
  print('-----')
  exit()
  print('----')
  print('****************************)
  print('LOGIN SUCCESFUL, CONTINUE')
  print('***************************)
  print('-----')
  print()
  print('----')
  print('*****************************)
  print(str.capitalize(users[n]), 'welcome to ELECTRO ATM SYSTEM')
  print('****************************)
  print('-----')
```

print('-----')

```
# Main menu
while True:
 # os.system('clear')
 print('----')
 print('********************************)
 response = input( 'SELECT FROM FOLLOWING OPTIONS: \nStatement__(S) \nCash
              Withdraw___(W) \nCash Deposit___(C) \nChange PIN_(P) '
              '\nQuit____(Q) \nType The Letter Of Your Choices: ').lower()
 print('******************************)
 print('-----')
 valid_responses = ['s', 'w', 'c', 'p', 'q']
 response = response.lower()
 if response == 's':
   print('----')
   print(str.capitalize(users[n]), 'YOU HAVE', amounts[n], 'RUPEES IN YOUR ACCOUNT.')
```

```
elif response == 'w':
 cash_out = int(input('ENTER AMOUNT YOU WOULD LIKE TO WITHDRAW: '))
 print('-----')
 if cash_out % 500 != 0 and cash_out % 2000 != 0:
  print('-----')
  print('AMOUNT YOU WANT TO WITHDRAW MUST TO MATCH 500 AND 2000 RUPEES
     NOTES')
  print('-----')
 elif cash_out > amounts[n]:
  print('----')
  print('******************************)
  print('YOU HAVE INSUFFICIENT BALANCE')
  print('**********************************)
  print('----')
```

```
else:
  amounts[n] = amounts[n] - cash_out
  print('----')
  print('*******************************)
  print('YOUR NEW BALANCE IS: ', amounts[n], 'RUPEES')
  print('***********************************
  print('-----')
elif response == 'c':
 print()
 cash in = int(input('ENTER AMOUNT YOU WANT TO LODGE: '))
 print('-----')
 print()
 if cash_in % 500 != 0 and cash_in % 2000 != 0:
  print('AMOUNT YOU WANT TO LODGE MUST TO MATCH 500 AND 2000 RUPEES NOTES')
```

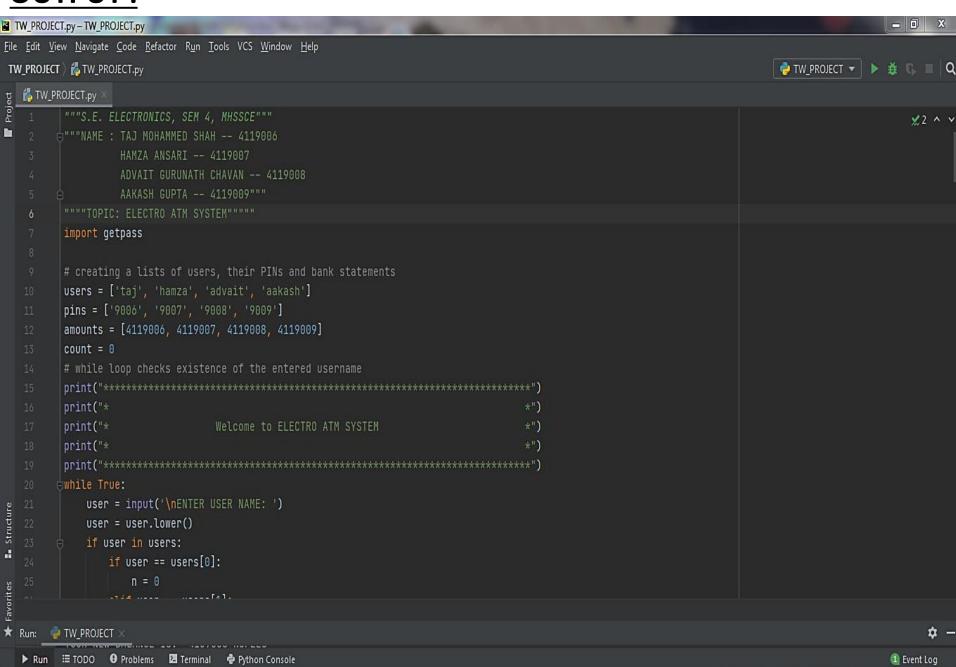
```
else:
   amounts[n] = amounts[n] + cash_in
   print('-----')
   print('YOUR NEW BALANCE IS: ', amounts[n], 'RUPEES')
   print('**********************************)
   print('-----')
elif response == 'p':
 print('----')
 new_pin = str(getpass.getpass('ENTER A NEW PIN: '))
 print('******************************
 print('----')
 if new_pin.isdigit() and new_pin != pins & [n] and len(new_pin) == 4:
   print('----')
   print('*************')
   new_card_pin = str(getpass.getpass('CONFIRM NEW PIN: '))
   print('*************')
   print('----')
```

```
if new_card_pin != new_pin:
   print('----')
   print('*********')
   print('PIN MISMATCH')
   print('********')
   print('----')
 else:
   pins[n] = new_pin
   print('NEW PIN SAVED')
else:
 print('-----')
 print('*******************************)
 print(' NEW PIN MUST CONSIST OF 4 DIGITS \nAND MUST BE DIFFERENT TO PREVIOUS
           PIN')
 print('********************************)
 print('-----')
```

```
elif response == 'q':
    exit()
else:
    print('-----')
    print('****************')
    print('RESPONSE NOT VALID')
    print('**************')
    print('-----')
```

OUTPUT:

PyCharm 2020.3.5 available // Update... (29 minutes ago)



6:35 CRLF UTF-8 4 spaces Python 3.8 (TW_PROJECT) %

