

## Python Project Documentation

```
import pymysql as p
import random as r
def connect():
    return p.connect(host="localhost",
user="root",password="Gaurav.2001@#",database='bankmanagement',port=3306)

AccountNum=r.randint(1000000,2000000)

while True:
    #print Heading
    print("*"*115)
    print(" "*45,end="")
    print("|| Wellcome to ATM ||")
    print("*"*115)
    con=connect()
    cu=con.cursor()
    try:
        choice=int(input(" 1->Open Account\n 2->Cash Deposit\n 3->Cash
Withdrawal\n 4->Account Statement\n 5->Update Account\n 6->Delete Account\n 7-
>Exit\n Enter Your Choice: "))
    except ValueError:
        print("Enter valid number..!!")
        pass
    if choice == 1:
        # create account
        print("="*115)
        name=input("Enter Full Name of Account Holder: ")
        mob=input("Enter Registered Mobile Number: ")
        balance=int(input("Enter opening balance: "))
        pin=int(input("Enter 4 Digits Seurity PIN: "))
        query = "Insert into atm
values({},'{}','{}',{},{})".format(AccountNum,name,mob,balance,pin)
        cu.execute(query)
        con.commit()

        print(" Account created successfully..!\n Your Account Number is
{}".format(AccountNum))
        print("="*115)

    elif choice == 2:
        # Debit amount
        account = int(input("Enter youre AccountNumber: "))
        pin = int(input("Enter security PIN: "))
        query = "select * from atm where SecurityPin={}".format(pin)
        cu.execute(query)
        data=cu.fetchone()
```

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        try:
            if pin == data[4]:
                amount=int(input("How much amount would you like to deposit:
"))
                temp_amount=data[3]+amount
                query = "update atm set balance={} where
SecurityPin={}".format(temp_amount,pin)
                cu.execute(query)
                con.commit()
                con.close()
                print(" Deposit successfully..!! \n Your Account Balance
is:{}".format(temp_amount) )

            except:
                print("Invalid Entry!!!")

    elif choice == 3:
        # withdraw amount
        account = int(input("Enter youre AccountNumber: "))
        pin = int(input("Enter security PIN: "))
        query = "select * from atm where SecurityPin={}".format(pin)
        cu.execute(query)
        data=cu.fetchone()
        try:
            if pin == data[4]:
                amount=int(input("How much amount would you like to withdraw :
"))
                if data[3]>=amount:
                    temp_amount=data[3]-amount
                    query = "update atm set balance={} where
SecurityPin={}".format(temp_amount,pin)
                    cu.execute(query)
                    con.commit()
                    con.close()
                    print("withdrawal successfully..!!\n Your Account Blanace
is: {}".format(temp_amount))
                else:
                    print("You have insufficient balance..!!!")
            except:
                print("Invalid Entry!!!")

    elif choice == 4:
        # Account Satatments
        print("=*115)
        mob = input("Enter Registered Mobile Number: ")
        pin=int(input("Enter Security PIN: "))
        query = "Select * from atm where SecurityPin={}".format(pin)

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cu.execute(query)
data=cu.fetchone()

# print(data)
try:
    if pin == data[4]:
        print("="*115)
        print("Account Details are: ")
        print("Account Number: ",data[0])
        print("Name: ",data[1])
        print("Mobile Number: ",data[2])
        print("Balance: ",data[3])
        print("="*115)
    except:
        # raise TypeError("Account Not Found..!!")
        print("Account not found")
        print("="*115)

elif choice == 5:
    account=input("Enter Account Number you want to update:")
    query="Select * from atm where AccountNumber={}".format(account)
    cu.execute(query)
    data=cu.fetchone()
    if data==None:
        print("Record Not Found")
    else:
        print("Account Number:",data[0])
        print("1]Name:",data[1])
        print("2]Mobile Number:",data[2])
        print("3]Exit:")

    ch=int(input("Enter your choice:"))

    if ch==1:
        new_n=input("Enter New Name:")
        # temp_variable="fullName='{}'.format(new_n)
        qu="update atm set FullName='{}' where
AccountNumber={}".format(new_n,account)
        # print(qu)
        cu.execute(qu)
        con.commit()
        print("Record updated")
        print("{} Changed to {}".format(data[1],new_n))
    elif ch==2:
        new_m=input("Enter New Mobile Number:")
        # temp_variable="mobileNumber={}".format(new_m)
        qu="update atm set MobileNumber='{}' where
AccountNumber={}".format(new_m,account)

```

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        cu.execute(qu)
        con.commit()
        print("Record Updated")
        print("{} Changed to {}".format(data[2],new_m))
    elif ch==3:
        print("Exit")
    else:
        print("Invalid choice")

elif choice == 6:
    account = int(input("Enter your Account Number: "))
    pin = int(input("Enter your PIN: "))
    query1 = "select * from atm where SecurityPin={}".format(pin)
    cu.execute(query1)
    data = cu.fetchone()

    query2 = "delete from atm where SecurityPin={}".format(pin)
    cu.execute(query2)
    con.commit()

    print("Account will deleted successfully...!!")

elif choice == 7:
    break

else:
    print("Invalid Choice")

```

Output:

Menu

```
PS E:\ITVedant\python\python CRUD project> & C:/Users/Gaurav/AppData/Local/Programs/Python/Python39/python.exe "e:/ITV
alProject.py/atm.py"
*****
|| Wellcome to ATM ||
*****
1->Open Account
2->Cash Deposit
3->Cash Withdrawal
4->Account Statement
5->Update Account
6->Delete Account
7->Exit
Enter Your Choice:
```

1] Open Account:

```
*****
|| Wellcome to ATM ||
*****
1->Open Account
2->Cash Deposit
3->Cash Withdrawal
4->Account Statement
5->Update Account
6->Delete Account
7->Exit
Enter Your Choice: 1
=====
Enter Full Name of Account Holder: gaurav warise
Enter Registered Mobile Number: 9112792733
Enter opening balance: 5000
Enter 4 Digits Security PIN: 9112
Account created successfully..!
Your Account Number is 1813870
=====
|| Wellcome to ATM ||
*****
1->Open Account
2->Cash Deposit
3->Cash Withdrawal
4->Account Statement
5->Update Account
6->Delete Account
7->Exit
Enter Your Choice: █
```

## 2] Debit:

```
*****
|| Wellcome to ATM ||
*****
1->Open Account
2->Cash Deposit
3->Cash Withdrawal
4->Account Statement
5->Update Account
6->Delete Account
7->Exit
Enter Your Choice: 2
Enter youre AccountNumber: 1813870
Enter security PIN: 9112
How much amount would you like to deposit: 5000
Deposit successfully..!!
Your Account Balance is:10000
*****
|| Wellcome to ATM ||
*****
1->Open Account
2->Cash Deposit
3->Cash Withdrawal
```

## 3] Withdraw:

```
*****
|| Wellcome to ATM ||
*****
1->Open Account
2->Cash Deposit
3->Cash Withdrawal
4->Account Statement
5->Update Account
6->Delete Account
7->Exit
Enter Your Choice: 3
Enter youre AccountNumber: 1813870
Enter security PIN: 9112
How much amount would you like to withdraw : 3000
withdrawal successfully..!!
Your Account Blanace is: 7000
*****
|| Wellcome to ATM ||
*****
```

## 4] Account Statements:

```
*****
1->Open Account
2->Cash Deposit
3->Cash Withdrawal
4->Account Statement
5->Update Account
6->Delete Account
7->Exit
Enter Your Choice: 4
=====
Enter Registered Mobile Number: 9112792733
Enter Security PIN: 9112
=====
Account Details are:
Account Number: 1813870
Name: gaurav warise
Mobile Number: 9112792733
Balance: 7000
=====
|| Wellcome to ATM ||
*****
1->Open Account
2->Cash Deposit
3->Cash Withdrawal
```

## 5] Update Account:

```

|| Wellcome to ATM ||
*****
1->Open Account
2->Cash Deposit
3->Cash Withdrawal
4->Account Statement
5->Update Account
6->Delete Account
7->Exit
Enter Your Choice: 5
Enter Account Number you want to update:1813870
Account Number: 1813870
1]Name: gaurav warise
2]Mobile Number: 9112792733
3]Exit:
Enter your choice:1
Enter New Name:Gaurav Warise
Record updated
gaurav warise Changed to Gaurav Warise
*****
|| Wellcome to ATM ||
*****
1->Open Account
```

## 6] Delete Account:

```

gaurav warise Changed to Gaurav Warise
*****
|| Wellcome to ATM ||
*****
1->Open Account
2->Cash Deposit
3->Cash Withdrawal
4->Account Statement
5->Update Account
6->Delete Account
7->Exit
Enter Your Choice: 6
Enter your Account Number: 1813870
Enter your PIN: 9112
Account will deleted successfully..!!
*****
|| Wellcome to ATM ||
*****
1->Open Account
2->Cash Deposit
3->Cash Withdrawal
4->Account Statement
5->Update Account
6->Delete Account
7->Exit
Enter Your Choice: █
```