Write a python program to replicate a Banking system. The following features are mandatory:
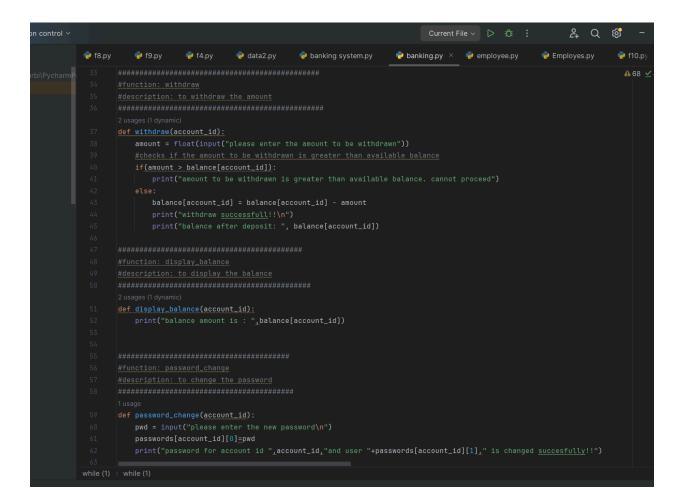1. Account login
2. Amount Depositing
3. Amount Withdrawal
Other than the above features you can add any other also.

You should upload the code and output into your github account. Submit the github link here.

(Score : code (7) + extra features (2) + Timely submission (1))


```python
####################################################
#function: account_login
#description: account login validation with password
####################################################
1 usage
def account_login():
    print("welcome to ABC banking!, please enter the account detail for login \n")
    while(1):
        account_id = input("please enter the account id")
        #checks whether the account id exists in the database
        if(account_id in passwords.keys()):
            pwd = input("please enter the password:")
            #password validation
            if(pwd == passwords[account_id][0]):
                print("account login successful!!. welcome ",passwords[account_id][1])
                break
            else:
                print("account password is incorrect. please enter correct password")
        else:
            print("incorrect customer id. please enter correct customer id")
    #returns the account id if the login validation is successfull
    return(account_id)


######################################
#function: deposit
#description: to deposit the amount
######################################
2 usages (1 dynamic)
def deposit(account_id):
    amount = float(input("please enter the amount to be deposited"))
    balance[account_id] = balance[account_id]+amount
    print("deposit succesfull!!\n")
    print("balance after deposit: ",balance[account_id])
```

Current File ∨

```python
33    ################################################
34    #function: withdraw
35    #description: to withdraw the amount
36    ################################################
      2 usages (1 dynamic)
37    def withdraw(account_id):
38        amount = float(input("please enter the amount to be withdrawn"))
39        #checks if the amount to be withdrawn is greater than available balance
40        if(amount > balance[account_id]):
41            print("amount to be withdrawn is greater than available balance. cannot proceed")
42        else:
43            balance[account_id] = balance[account_id] - amount
44            print("withdraw successfull!!\n")
45            print("balance after deposit: ", balance[account_id])
46
47    #########################################
48    #function: display_balance
49    #description: to display the balance
50    #########################################
      2 usages (1 dynamic)
51    def display_balance(account_id):
52        print("balance amount is : ",balance[account_id])
53
54
55    #########################################
56    #function: password_change
57    #description: to change the password
58    #######################################
      1 usage
59    def password_change(account_id):
60        pwd = input("please enter the new password\n")
61        passwords[account_id][0]=pwd
62        print("password for account id ",account_id,"and user "+passwords[account_id][1]," is changed succesfully!!")
63
```

f8.py   f9.py ✕   f4.py   data2.py   banking system.py   banking.py ✕   employee

```python
############################################################################
#initial database values
passwords={'12345':['apple@123','Alex',],'25689':['asdfg*23','Bob']}
balance = {'12345':40000 , '25689':3000}

while(1):
    account_id = account_login()
    while(1):
        menu = """
                    1 for deposit
                    2 for withdrawal
                    3 for display balance
                    4 for password change
                    5 logout
                    """
        choice = input(menu)
        if(choice == '1'):
            deposit(account_id)
        elif(choice == '2'):
            withdraw(account_id)
        elif(choice == '3'):
            display_balance(account_id)
        elif(choice == '4'):
            password_change(account_id)
            print("please login again after password change")
            break
        elif(choice == '5'):
            print("logging out. Thanks for using ABC banking\n")
            break
        else:
            print("invalid choice. please enter again")
```

while (1) > while (1)
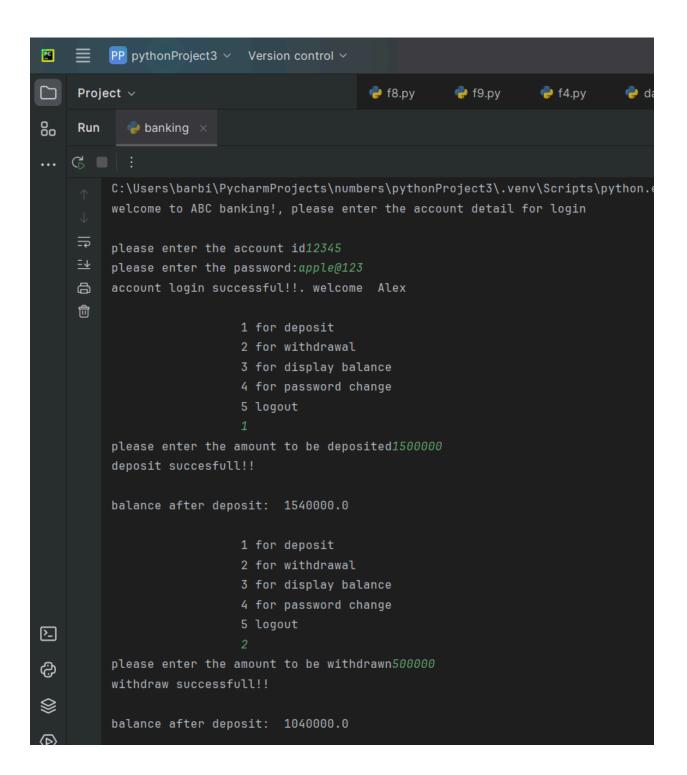
```python
        menu = (""" please enter :
                    1 for login page
                    2 to exit the banking
              """)
        choice = input(menu)
        if(choice == '1'):
            pass
        elif(choice == '2'):
            print("Thankyou for using ABC banking. exiting")
            break
```

Output


```
C:\Users\barbi\PycharmProjects\numbers\pythonProject3\.venv\Scripts\python.e
welcome to ABC banking!, please enter the account detail for login


please enter the account id12345
please enter the password:apple@123
account login successful!!. welcome  Alex

                    1 for deposit
                    2 for withdrawal
                    3 for display balance
                    4 for password change
                    5 logout
                    1
please enter the amount to be deposited1500000
deposit succesfull!!

balance after deposit:  1540000.0

                    1 for deposit
                    2 for withdrawal
                    3 for display balance
                    4 for password change
                    5 logout
                    2
please enter the amount to be withdrawn500000
withdraw successfull!!

balance after deposit:  1040000.0
```

```
                           1 for deposit
                           2 for withdrawal
                           3 for display balance
                           4 for password change
                           5 logout
                           3
balance amount is :   1040000.0

                           1 for deposit
                           2 for withdrawal
                           3 for display balance
                           4 for password change
                           5 logout
                           4
please enter the new password
dairymilk
password for account id  12345 and user Alex  is changed succesfully!!
please login again after password change
 please enter :
                    1 for login page
                    2 to exit the banking
          1
welcome to ABC banking!, please enter the account detail for login

please enter the account id12345
please enter the password:dairymilk
account login successful!!. welcome  Alex

                           1 for deposit
                           2 for withdrawal
                           3 for display balance
                           4 for password change
                           5 logout
```

```
                            5
logging out. Thanks for using ABC banking


 please enter :
                    1 for login page
                    2 to exit the banking
              2
Thankyou for using ABC banking. exiting


Process finished with exit code 0
```