PY-7

Dear Students,
We have covered core python, now it's time to test your coding and logical skills, also to know how confident you are with the syntax, i'm giving you a small project:
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 in to your github account. Submit the github link here.

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

Codes:

```python
class Account:
    balance = 0.0

    def display_balance(self):
        print(f"Net balance is: Rs {self.balance}")

    def deposit(self):
        amount = float(input("Enter amount to be deposited: "))
        self.balance += amount
        print(f"Amount deposited: Rs {amount}")

    def withdraw(self):
        amount = float(input("Enter amount to be withdrawn: "))
        if self.balance >= amount:
            self.balance -= amount
            print(f"Amount withdrawn: Rs {amount}")
        else:
            print("Insufficient balance for withdrawal.")

def login():
    username = input("Enter your username: ")
    password = input("Enter your password: ")
    print(f"Login successful! Welcome, {username}.")

# Main program
def main():
    print("Welcome to State Bank of India")
    login()
    bank_account = Account()

    while True:
        print("\nSelect an option:")
        print("1. Deposit Money")
        print("2. Withdraw Money")
```

```python
        print("3. Display Balance")
        print("4. Exit")

        choice = input("Enter your choice (1/2/3/4): ")

        if choice == '1':
            bank_account.deposit()
        elif choice == '2':
            bank_account.withdraw()
        elif choice == '3':
            bank_account.display_balance()
        elif choice == '4':
            print("Thank you for using the State Bank of India.")
            break
        else:
            print("Invalid choice. Please try again.")


main()  # Call the main function
```

Results:

Welcome to State Bank of India
Enter your username: Sooraj Arun
Enter your password: 1234
Login successful! Welcome, Sooraj arun.

Select an option:
1. Deposit Money
2. Withdraw Money
3. Display Balance
4. Exit
Enter your choice (1/2/3/4): 1
Enter amount to be deposited: 5000
Amount deposited: Rs 5000.0

Select an option:
1. Deposit Money
2. Withdraw Money
3. Display Balance
4. Exit
Enter your choice (1/2/3/4): 2
Enter amount to be withdrawn: 25000
Amount withdrawn: Rs 25000.0

Select an option:
1. Deposit Money
2. Withdraw Money
3. Display Balance
4. Exit
Enter your choice (1/2/3/4): 3

Net balance is: Rs 475000.0

Select an option:
1. Deposit Money
2. Withdraw Money
3. Display Balance
4. Exit
Enter your choice (1/2/3/4): 4
Thank you for using the State Bank of India.

```python
class Account:
    balance = 0.0

    def display_balance(self):
        print(f"Net balance is: Rs {self.balance}")

    def deposit(self):
        amount = float(input("Enter amount to be deposited: "))
        self.balance += amount
        print(f"Amount deposited: Rs {amount}")

    def withdraw(self):
        amount = float(input("Enter amount to be withdrawn: "))
        if self.balance >= amount:
            self.balance -= amount
            print(f"Amount withdrawn: Rs {amount}")
        else:
            print("Insuffcient balance for withdrawal.")

def login():
    username = input("Enter your username: ")
    password = input("Enter your password: ")
    print(f"Login successful! Welcome, {username}.")

#main program
def main():
    print("Welcome to state Bank of India")
    login()
    bank_account = Account()

    while True:
        print("\nSelect an option:")
        print("1. Deposit Money")
        print("2. Withdraw Money")
        print("3. Display Balance")
        print("4. Exit")

        choice = input("Enter your choice (1/2/3/4): ")
        if choice == '1':
            bank_account.deposit()
        elif choice == '2':
            bank_account.withdraw()
```

```
        bank_account.deposit()
    elif choice == '2':
        bank_account.withdraw()
    elif choice == '3':
        bank_account.display_balance()
    elif choice == '4':
        print("Thank you for using the State Bank of India.")
        break
    else:
        print("Invalid choice. Please try again.")

main()
```

```
Welcome to state Bank of India
Enter your username:  Sooraj Arun
Enter your password:  1234
Login successful! Welcome, Sooraj Arun.

Select an option:
1. Deposit Money
2. Withdraw Money
3. Display Balance
4. Exit
Enter your choice (1/2/3/4):  1
Enter amount to be deposited:  5000
Amount deposited: Rs 5000.0

Select an option:
1. Deposit Money
2. Withdraw Money
3. Display Balance
4. Exit
Enter your choice (1/2/3/4):  2
Enter amount to be withdrawn:  1000
Amount withdrawn: Rs 1000.0

Select an option:
1. Deposit Money
2. Withdraw Money
3. Display Balance
4. Exit
Enter your choice (1/2/3/4):  3
Net balance is: Rs 4000.0

Select an option:
1. Deposit Money
2. Withdraw Money
```

```
Select an option:
1. Deposit Money
2. Withdraw Money
3. Display Balance
4. Exit
Enter your choice (1/2/3/4):  4
Thank you for using the State Bank of India.
```