

# 7.OOPs- Banking

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:

```
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        amount = float(input("Enter amount to be withdrawn: "))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            print(f"Amount withdrawn: Rs {amount}")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")
```

```
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: Judit Thomas  
Enter your password: 123456  
Login successful! Welcome, Judit Thomas.

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: 500000  
Amount deposited: Rs 500000.0

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Enter amount to be withdrawn: 25000  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.

## Screen Shots:

```
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")
        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

Welcome to State Bank of India
Enter your username:  Judit Thomas
```

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Welcome to State Bank of India  
Enter your username: Judit Thomas  
Enter your password: 123456  
Login successful! Welcome, Judit Thomas.

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: 500000  
Amount deposited: Rs 500000.0

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.

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