

**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."""



```
In [2]: class BankAccount:
    def __init__(self, username, password):
        self.username = username
        if len(password) < 8:
            raise ValueError("Password must be at least 8 characters long.")
        self.password = password
        self.balance = 0

    def login(self, username, password):
        return username == self.username and password == self.password

    def deposit(self, amount):
        if amount > 0:
            self.balance += amount
            return True
        else:
            print("Invalid input. Deposit amount must be greater than zero")
            return False

    def withdraw(self, amount):
        if amount > 0 and amount <= self.balance:
            self.balance -= amount
            return True
        else:
            print("Invalid input or insufficient funds. Withdrawal failed.")
            return False

    def donation(self, amount):
        if amount > 0 and amount <= self.balance:
            self.balance -= amount
            return True
        else:
            print("Invalid input or insufficient funds. Donation failed.")
            return False

    def balance_inquiry(self):
        return self.balance

account = BankAccount("fathima123", "pass03703")

def main():
    while True:
        print("\nWelcome to the Banking system")
        print("1. Login")
        print("2. Exit")
        select = input("Enter your choice: ")

        if select == "1":
            username = input("Enter your Username: ")
            password = input("Enter your password: ")
            try:
                if account.login(username, password):
                    print("Login successful.")
                    while True:
                        print("\nSelect an option:")
                        print("1. Deposit")
                        print("2. Withdraw")
                        print("3. Balance inquiry")
                        print("4. Donation")
                        print("5. Logout")
                        option = input("Enter your choice: ")
```

```
if option == '1':
    amount = float(input("Enter amount to deposit:"))
    if account.deposit(amount):
        print("Deposit successful.")
    else:
        print("Deposit failed.")
elif option == '2':
    amount = float(input("Enter amount to withdraw:"))
    if account.withdraw(amount):
        print("Withdrawal successful.")
    else:
        print("Withdrawal failed.")
elif option == '3':
    print("Your Balance is:", account.balance_inquiry())
elif option == '4':
    amount = float(input("Enter amount of Donation:"))
    if account.donation(amount):
        print("Donation successful.")
    else:
        print("Donation failed.")
elif option == '5':
    print("Logout")
    break
else:
    print("Invalid option. Please try again.")

else:
    print("Invalid username or password. Please try again.")
except ValueError as e:
    print(e)
elif select == '2':
    print("Exiting the Banking system. Goodbye!")
    break
else:
    print("Invalid choice. Please try again.")

if __name__ == "__main__":
    main()
```

Welcome to the Banking system

1. Login

2. Exit

Enter your choice: 1

Enter your Username: fathima123

Enter your password: pass03703

Login successful.

Select an option:

1. Deposit

2. Withdraw

3. Balance inquiry

4. Donation

5. Logout

Enter your choice: 1

Enter amount to deposit: 100000

Deposit successful.

Select an option:

1. Deposit

2. Withdraw

3. Balance inquiry

4. Donation

5. Logout

Enter your choice: 2

Enter amount to withdraw: 3000

Withdrawal successful.

Select an option:

1. Deposit

2. Withdraw

3. Balance inquiry

4. Donation

5. Logout

Enter your choice: 3

Your Balance is: 97000.0

Select an option:

1. Deposit

2. Withdraw

3. Balance inquiry

4. Donation

5. Logout

Enter your choice: 7000

Invalid option. Please try again.

Select an option:

1. Deposit

2. Withdraw

3. Balance inquiry

4. Donation

5. Logout

Enter your choice: 3

Your Balance is: 97000.0

Select an option:

1. Deposit

2. Withdraw

3. Balance inquiry

4. Donation

```
5. Logout
Enter your choice: 8
Invalid option. Please try again.
```

```
Select an option:
1. Deposit
2. Withdraw
3. Balance inquiry
4. Donation
5. Logout
Enter your choice: 5
Logout
```

```
Welcome to the Banking system
1. Login
2. Exit
Enter your choice: 2
Exiting the Banking system. Goodbye!
```

In [ ]: