```
class ATM:
    def __init__(self):
        self.users = {
            "112233": ["1234", 1000.0],
            "445566": ["4321", 1500.0],
        self.current_user = None
   def authenticate(self):
        card = input("Enter your card number: ")
        pin = input("Enter your PIN: ")
        if card in self.users and self.users[card][0] == pin:
            self.current_user = card
            print("\n ✓ Authentication successful! ✓ \n")
            return True
        else:
            print("\nX Invalid card number or PIN.X\n")
            return False
    def check_balance(self):
        balance = self.users[self.current_user][1]
        print(f"\n is Your current balance is: ${balance:.2f} is \n")
   def deposit(self):
          amount = float(input("Enter amount to deposit: $"))
          if amount <= 0:</pre>
              raise ValueError
          self.users[self.current_user][1] += amount
          print(f"\n ✓ Deposited ${amount:.2f} successfully. ✓ \n")
       except ValueError:
          print("\nX Invalid amount.X\n")
   def withdraw(self):
          amount = float(input("Enter amount to withdraw: $"))
          balance = self.users[self.current_user][1]
          if amount <= 0 or amount > balance:
              print("\n X Invalid amount or insufficient funds.\n")
              return
          self.users[self.current_user][1] -= amount
          print(f"\n ✓ Withdrawn ${amount:.2f} successfully. ✓ \n")
       except ValueError:
          print("\n X Invalid amount. X \n")
```

```
def main_menu(self):
          print("===== ATM MENU =====")
           print("1. Check Balance")
           print("2. Deposit")
           print("3. Withdraw")
           print("4. Exit")
           choice = input("Choose an option (1-4): ")
           if choice == '1':
               self.check_balance()
            elif choice == '2':
               self.deposit()
            elif choice == '3':
               self.withdraw()
            elif choice == '4':
               print("\n Thank you for using the ATM. Goodbye! 🔌 👋 👋 \n")
               print("\nXXX Invalid option. Please try again.XXX\n")
   def run(self):
       print("===== Welcome to Python ATM =====")
       attempts = 3
       while attempts > 0:
           if self.authenticate():
               self.main_menu()
               break
           attempts -= 1
           print(f"Attempts remaining: {attempts}\n")
       if attempts == 0:
          print("X Too many failed attempts. Card blocked. X \n")
if __name__ == "__main__":
   atm = ATM()
   atm.run()
```

```
C:\Program Files\WindowsAp × +
==== Welcome to Python ATM =====
Enter your card number: 112233
Enter your PIN: 1234
✓Authentication successful! ✓
===== ATM MENU =====
1. Check Balance
2. Deposit
3. Withdraw
4. Exit
Choose an option (1-4): 1

♦ Your current balance is: $1000.00 ♦

===== ATM MENU =====
1. Check Balance
Deposit
Withdraw
4. Exit
Choose an option (1-4): 2
Enter amount to deposit: $1500
🔽 Deposited $1500.00 successfully. 🗸

    Check Balance

Deposit
3. Withdraw
4. Exit
Choose an option (1-4): 1
🄞 Your current balance is: $2500.00 🚳
===== ATM MENU =====
1. Check Balance
2. Deposit
3. Withdraw
4. Exit
Choose an option (1-4): 3
Enter amount to withdraw: $1000
🗹 Withdrawn $1000.00 successfully. 🔽
===== ATM MENU =====

    Check Balance
    Deposit

3. Withdraw
4. Exit
Choose an option (1-4): 1
🄞 Your current balance is: $1500.00 🚳
===== ATM MENU =====
1. Check Balance
2. Deposit
3. Withdraw
4. Exit
Choose an option (1-4):
```