class BankAccount:

def \_\_init\_\_(self, account\_number, account\_holder, password, balance=0):

"""Initialize account with account number, holder, password and initial balance."""

self.account\_number = account\_number

self.account\_holder = account\_holder

self.password = password

self.balance = balance

self.transaction\_history = []

def login(self, password):

"""Login to the account by validating password."""

if self.password == password:

print("Login successful!")

return True

else:

print("Invalid password. Please try again.")

return False

def deposit(self, amount):

"""Deposit a specified amount into the account."""

if amount > 0:

self.balance += amount

self.transaction\_history.append(f"Deposited: ${amount}")

print(f"${amount} has been deposited to your account.")

else:

print("Invalid deposit amount.")

def withdraw(self, amount):

"""Withdraw a specified amount from the account."""

if amount > 0:

if self.balance >= amount:

self.balance -= amount

self.transaction\_history.append(f"Withdrawn: ${amount}")

print(f"${amount} has been withdrawn from your account.")

else:

print("Insufficient balance.")

else:

print("Invalid withdrawal amount.")

def check\_balance(self):

"""Check the current balance of the account."""

print(f"Your current balance is: ${self.balance}")

def view\_transaction\_history(self):

"""View all transactions made on the account."""

if self.transaction\_history:

print("Transaction History:")

for transaction in self.transaction\_history:

print(transaction)

else:

print("No transactions found.")

# Main program

def main():

# Create a sample account

account = BankAccount(account\_number="987654321", account\_holder="Rosemary", password="password123", balance=500)

# Simulating login process

print("=== Welcome to ANS Bank ===")

login\_attempts = 3

while login\_attempts > 0:

password = input("Enter your password to login: ")

if account.login(password):

break

login\_attempts -= 1

if login\_attempts == 0:

print("Too many failed attempts. Exiting system.")

return

# Banking operations menu

while True:

print("\n=== Banking Menu ===")

print("1. Deposit Amount")

print("2. Withdraw Amount")

print("3. Check Balance")

print("4. View Transaction History")

print("5. Exit")

choice = input("Enter your choice (1-5): ")

if choice == '1':

amount = float(input("Enter amount to deposit: "))

account.deposit(amount)

elif choice == '2':

amount = float(input("Enter amount to withdraw: "))

account.withdraw(amount)

elif choice == '3':

account.check\_balance()

elif choice == '4':

account.view\_transaction\_history()

elif choice == '5':

print("Thank you for using ANS Bank. Have a great day!")

break

else:

print("Invalid choice. Please try again.")

if \_\_name\_\_ == "\_\_main\_\_":

main()