main (3)

```python
class BankAccount:

    def __init__(self, account_number, account_holder_name, initial_balance=0.0):
        self.__account_number = account_number
        self.__account_holder_name = account_holder_name
        self.__account_balance = initial_balance

    def deposit (self, amount):
        if amount > 0:
            self.__account_balance += amount
            # self.__account_balance = self.__account_balance+amount
            print("Deposited {}. New balance: {}".format(amount,

            self.__account_balance))

        else:
            print("Invalid deposit amount.")

    def withdraw(self, amount):
        if amount > 0 and amount<= self.__account_balance:
            self.__account_balance -= amount
            # self.__account_balance = self.__account_balance - account
            print("Withdrew {}. New balance: {}".format(amount,
            self.__account_balance))

        else:
            print("Invalid withdrawal amount.")

    def display_balance(self):
        print("Account balance for {} (Account {}):  {}".format(
        self.__account_holder_name,
        self.__account_number,
        self.__account_balance))

# Create an instance of the BankAccount class
account = BankAccount(account_number= "9876543211",
account_holder_name="Priyadarshini",
initial_balance= 5000.0)
```

```python
# Test deposit and withdrawal functionality
account.display_balance()
account.deposit(500.0)
account.withdraw(200.0)
account.withdraw(20000.0)
account.display_balance()
```