

#challenge 2.1

```
class bankaccount:
```

```
    def  
    __init__(self,account_number,account_holder_name,i  
    nitial_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  
            print("deposited ₹{}. New balance: ₹  
{},format(amount,self.__account_balance))
```

```
        else:  
            print("invalid deposit amount. please deposit a  
positive amount.")
```

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

```
        else:  
            print("invalid withdrawal amount or insufficient  
balance.")
```

```
    def display_balance(self):  
        print("account balance for {} (account#{}): ₹  
{},format(self.__account_holder_name,self.__accoun  
t_number,self.__account_balance))
```

```
account=bankaccount(account_number="987654321
```

```

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

    else:
        print("invalid deposit amount. please deposit a
        positive amount.")

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

    else:
        print("invalid withdrawal amount or insufficient
        balance.")

def display_balance(self):
    print("account balance for {} (account#{}): ₹
    {}".format(self.__account_holder_name,self.__account
    _number,self.__account_balance))

account=bankaccount(account_number="987654321
",
                    account_holder_name="jai",
                    initial_balance=6000.0)

account.display_balance()
account.deposit(500.0)
account.withdraw(200.0)
account.display_balance()

```