

'''Implement a class called BankAccount that represents a bank account. The class should have private attributes for account number, account holder name, and account balance. Include methods to deposit money, withdraw money, and display the account balance. Ensure that the account balance cannot be accessed directly from outside the class. write a program to create an instance of the BankAccount class test the deposit and withdrawal functionality.'''

```
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
```

```
            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
```

```
            #self.__account_balance = self.__account_balance - amount
```

```
            print("withdrew ₹{}. New balance : ₹{}".format(amount, self.__account_balance))
```

```
        else:
```

```
print("Invalid withdrawal amount or insufficient balance.")
```

```
def dispaly_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="123456789",  
    account_holder_name="Hari prabhu",  
    initial_balance =5000.0)
```

```
# Test deposit and withdrawal functionality
```

```
account.disply_balance()  
account.deposit(500.0)  
account.withdraw(200.0)  
account.disply_balance()
```