

Sri Vijay Vidyalaya College of arts and science, bargur

Challenge 2.1

```
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.")
    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 withdraw 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="9042442317",
                       account_holder_name="Lavanya",
                       initial_balance=10000.0)
account.display_balance()
account.deposit(5000.0)
account.withdraw(2000.0)
account.withdraw(20000.0)
account.display_balance()
```

Challenge 2.2

```
class player:
    def play(self):
        print(" THE PLAYER IS PLAYING CRICKET .")
class Batsman(player):
    def play(self):
        print(" THE BATS MAN IS BATTING. ")
class Bowler(player):
    def paly(self):
```

```
        print(" THE BOWLER IS BOWLING. ")
batsman = Batsman()
bowler = Bowler()
batsman.play()
bowler.play()
```