**Task 4:**

def reverse(s):

str = " "

for i in s:

str = i + str

return str

s = str(input("enter the string value : "))

print("The original is : ",s)

print("The reversed string is : ",reverse(s))

**task 3 :**

class shape:

def \_\_init\_\_(self):

print("shape constructor called")\

@staticmethod

def printType():

print("shape")

class Rectangle(shape):

def \_\_init\_\_(self):

super().\_\_init\_\_()

self.length=0

self.width = 0

def draw(self):

print("draw rectangle")

class Triangle(shape):

def \_\_init\_\_(self):

super().\_\_init\_\_()

self.a = 0

self.b = 0

self.c = 0

def draw(self):

print("draw traingle")

shape.printType()

s=shape()

s.printType()

r=Rectangle().draw()

t=Triangle().draw()

**task 2 :**

**def** square\_():  
 d=[]  
 **for** i **in** range(1,21, 1):  
 d.append(i\*i)  
  
 print(d)  
  
square\_()

**task 1 :**

**def** add(x, y):  
 **return** x + y  
  
**def** subtract(x, y):  
 **return** x - y  
  
**def** multiply(x, y):  
 **return** x \* y  
  
**def** divide(x, y):  
 **return** x / y  
  
print(**"Select operation."**)  
print(**"1.Add"**)  
print(**"2.Subtract"**)  
print(**"3.Multiply"**)  
print(**"4.Divide"**)  
  
choice = input(**"Enter choice(1/2/3/4):"**)  
  
num1 = int(input(**"Enter first number: "**))  
num2 = int(input(**"Enter second number: "**))  
  
**if** choice == **'1'**:  
 print(add(num1,num2))  
  
**elif** choice == **'2'**:  
 print(subtract(num1,num2))  
  
**elif** choice == **'3'**:  
 print(multiply(num1,num2))  
  
**elif** choice == **'4'**:  
 print(divide(num1,num2))  
**else**:  
 print(**"Invalid input"**)