*#next program*h=list(range(30,100,10))  
print("given Range ", h)  
j=list(range(10))  
print("Arrived range = ", j)  
print("After slicing-1", j[2:6:2])  
a=list(range(10))  
print("Arrived range = ", a)  
print("After slicing-2 ", a[0:8:3])  
a=list(range(10))  
print("After slicing-3 ", a[:-2])  
a=list(range(10))  
print("The Element are ", a)  
print("After slicing-4 ", a[:-2:2])  
a=list(range(10))  
print("The Element are ", a)  
print("After slicing-5 ", a[::4])  
a=list(range(10))  
print("The Element are ", a)  
print("After slicing-6 ", a[2:-2])  
a="Stuttgart"  
print("Given String: ",a)  
print("After slicing -7 " , a[2:-2])  
a="Stuttgart"  
print("Given String: ",a)  
print("After slicing-8 " , a[-2:])  
a=list(range(10))  
print("The Element are ", a)  
print("After slicing-9 ", a[2:3])  
print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~")  
  
*#program -40*a = "1234abcd"  
b=a[::-1]  
print("Reversed string is ",b)  
  
  
*#Program -42*for i in range(6):  
 for j in range(i):  
 print("\*",end=" ")  
 print(" ")  
print("~~~~~~~~~~~~~~~~~~~")  
for i in range(5,0,-1):  
 for j in range(i):  
 print("\*", end=" ")  
 print(" ")  
  
*#program for using loop comprehension*fruits = ["Banana","Mango","Apple","Avakoda"]  
newlist=[]  
for x in fruits:  
 if "a" in x:  
 newlist.append(x)  
print(newlist)  
  
  
*#program to sum all items in the list*x = [10,11,12,13]  
print("The item to be added", x)  
result = sum(x)  
print("The sum of all items are" , result)  
  
*#program- test*x=50  
def fun1():  
 x=25  
 print(x)  
fun1()  
print(x)  
  
*#program -test*x=75  
def myfunc():  
 x = x+1  
 print(x)  
myfunc()  
print(x)  
  
*#program - test*print(bool(0),bool(3.14159),bool(-3),bool(1.0+1j))  
  
*# program - test*def func1():  
 x=50  
 return x  
func1()  
print(x)  
  
*#Program -test*a=[10,20]  
b=a  
b+=[30,40]  
print(a)  
print(b)  
  
*#program - test*x=10  
y=50  
if x\*\*2<100 and y<100:  
 print(x,y)  
  
  
*#program -strings*a = " Rithika ,sen "  
print("length before strip method",len(a))  
x= a.strip(" ")  
print(x)  
print("length after strip method",len(x))  
print("splitting method ")  
c=a.split(",")  
print(c)  
print(list("Rithika sen"))  
c="python"  
print(list(c))  
for i in c:  
 print(i)  
  
*#program -strings*c=" WELCOME TO PYTHON WORLD "  
print(len(c))  
*#print(c.strip("Welcome "))*d = c.strip(" ")  
print(len(d))  
e="welcome to python world"  
print(e.capitalize())  
print(c.casefold())  
print(c.center(60))  
print(e.count("e"))  
print(e.count("o"))  
print(e.format())  
  
*# program -strings*name="kumar"  
age = 26  
print ("My name is ",name + " ","Age =",format(age))  
x="My name is varshaa"  
print(x.encode())  
*# program*x="H\te\tl\tl\to"  
print(x.expandtabs(2))  
print(x.find("e"))

Ouput

given Range [30, 40, 50, 60, 70, 80, 90]

Arrived range = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

After slicing-1 [2, 4]

Arrived range = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

After slicing-2 [0, 3, 6]

After slicing-3 [0, 1, 2, 3, 4, 5, 6, 7]

The Element are [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

After slicing-4 [0, 2, 4, 6]

The Element are [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

After slicing-5 [0, 4, 8]

The Element are [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

After slicing-6 [2, 3, 4, 5, 6, 7]

Given String: Stuttgart

After slicing -7 uttga

Given String: Stuttgart

After slicing-8 rt

The Element are [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

After slicing-9 [2]

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Reversed string is dcba4321

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['Banana', 'Mango', 'Avakoda']

The item to be added [10, 11, 12, 13]

The sum of all items are 46

25

50