*x=8  
y=9  
z=x+y  
print(z)  
  
#2-program for using range  
# a=range(1, 10)  
# for i in a:  
 # print(i)  
#3\_program- Range  
b=range(3,30,2)  
for j in b:  
 print(j)  
  
#program for list  
thislist=["Apple","Mango","orange"]  
for n in thislist:  
 print(n)  
  
  
#program for using range in list  
thislist = ["one" , "Two" , "Three" , "four"]  
for i in range(len(thislist)):  
 print(thislist[i])  
  
#program for using while loop  
thislist = ["ganga","Narmada","krishna"]  
i = 0  
while i < len(thislist):  
 print(thislist[i])  
 i = i + 1  
  
#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 to multiply all items in a list  
x=int[3,4,5,6]  
y=1  
for i in x:  
 y=y\*i  
print(y)  
#program to get the largest number in a list  
items =[10,56,12,45,20]  
print("Entered elements are",items)  
print("The biggest element is")  
print(max(items))  
#program to get the smallest number in a list  
items =[10,56,12,45,20]  
print("Entered elements are",items)  
print("The smallest element is")  
print(min(items))"""*#7.program to find the frequency of a character in a string  
"""str=input("Enter the string: ")  
d = dict()  
for i in str:  
 if i in d:  
 d[i]=d[i]+1  
 else:  
 d[i]=1  
print(d)"""  
#8. program to count the number of strings where the string length is 2or more and first and last char is same.  
y= ['abc','xyz','aba','1221']  
print("The given strings are : ", y)  
for i in y:  
 length=len(i)  
 print("The length of the strings are: ", length)  
  
#Program for slicing in Strings  
b= "Hello, World!"  
print("The given string is: " , b)  
print("Slicing from 2nd position: " ,b[2:])  
print("Slicing from start position: " ,b[:5])  
print("Slicing from backward position: " ,b[-5:-2])  
print("Slicing from backward position: " ,b[:-2])  
print("Slicing from backward position: " ,b[-3:-1])  
print("The slicing result is: ",b[4:2:-1])  
c="Welcome to scaler"  
print(" slicing from backward ", c[-16:-4])  
print(" slicing from backward ", c[-16:-4:2])  
print(" slicing from backward ", c[3:-7])  
print(" slicing from backward ", c[-11:-1:2])  
print(" slicing from backward ", c[-13:-1:2])  
  
  
#program for slicing:  
b= [40, 50, 20, 30, 90]  
print("The given list: ", b)  
c=b[1:3]  
print(c)  
  
#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])