Co2

1.Program to find the factorial of a number

n=int(input("enter the number"))

f=1

fori in range(1,n+1):

f=f\*i

print("factor is",n,"=",f)

output

enter the number5

factor is 5 = 1

factor is 5 = 2

factor is 5 = 6

factor is 5 = 24

factor is 5 = 120

2.Generate Fibonacci series of N terms

n = int(input("Enter the limit : "))

a=0

b=1

sum= 0

count= 1

print("Fibonacci Series :",end= " ")

while(count<= n):

print(sum, end = " ")

count+=1

a=b

b=sum

sum=a+b

output

Enter the limit : 5

Fibonacci Series : 0 1 1 2 3

3.Find the sum of all items in a list

list=[10,40,50,30]

total=sum(list)

print("total is",total)

output

total is 130

4.Display the given pyramid with step number accepted from user.

r=int(input("enter the number"))

fori in range(1,r+1):

for j in range(1,i+1):

print(i\*j,end="")

print()

output

enter the number5

1

24

369

481216

510152025

5. Count the number of characters (character frequency) in a string.

test\_str=str(input("Enter the string : "))

freq = {}

fori in test\_str:

ifi in freq:

freq[i] += 1

else:

freq[i] = 1

print ("Count of all characters : "+ str(freq))

output

Enter the string :malayalam

Count of all characters : {'m': 2, 'a': 4, 'l': 2, 'y': 1}

6.**Add‘ing’attheendofagivenstring.Ifitalreadyendswith‘ing’,thenadd‘ly’**

str=input("enter a string:")

print("inputed string is:",str)

if(str.endswith("ing")):

str=str+'ly'

else:

str=str+'ing'

print("the formated string is:",str)

output

enter a string:game

inputed string is: game

theformated string is: gameing

7.Accept a list of words and return length of longest word.

a=[]

n= int(input("Enter the number of elements in list:"))

for x in range(0,n):

element=input("Enter element "+ str(x+1))

a.append(element)

max1=len(a[0])

temp=a[0]

fori in a:

if(len(i)>max1):

max1=len(i)

temp=i

print("Longest Word:",temp)

print("Length of longest word :",max1)

output

Enter the number of elements in list:1

Enter element 1java is power full

Longest Word: java is power full

Length of longest word : 18

8. Construct following

n=int(input("Enter the limit:"))

for i in range(n):

for j in range(i):

print ('\* ', end="")

print('')

for i in range(n,0,-1):

for j in range(i):

print('\* ', end="")

print('')

output

Enter the limit:3

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