**co2**

1.

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

f=1

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

f=f\*i

print("factorial",f)

output:

enter a number 5

factorial 120

2.

n=int(input("enter a limit"))

a=0

b=1

c=0

i=0

print("fibonacci series")

while(i<=n):

print(c,end=" ")

i=i+1

a=b

b=c

c=a+b

output:

enter a limit 5

fibonacci series

0 1 1 2 3 5

3.

l1=[2,4,5,6,2]

a=sum(l1)

print(a)

output:

19

4.

from math import sqrt as s for i in range(1000,10000):

if s(i)==int(s(i)) and i%2==0: print(i,end=" ")

output:

1024 1156 1296 1444 1600 1764 1936 2116 2304 2500 2704 2916 3136 3364 3600 3844 4096 4356 4624 4900 5184 5476 5776 6084 6400 6724 7056 7396 7744 8100 8464 8836 9216 9604

5.

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

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

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

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

print()

output:

enter a number 3

1

2 4

3 6 9

8.

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]

for i in a:

if(len(i)>max1):

max1=len(i)

temp=i

print("Longest Word:",temp,sep=",")

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

output:

Enter the number of elements in list:4

Enter element 12

Enter element 223

Enter element 345

Enter element 44354

Longest Word:,4354

Length of longest word : 4