**CO2-PYTHON LAB RECOD**

1. **PGM 1**

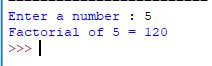
n=int(input('Enter a number : '))

f=1

for i in range(1,n+1): f=f\*i

print ('Factorial of',n, '=',f)

**OUT PUT**



1. **PGM 2**

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

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

**OUT PUT**



1. **PGM 3**

list1 = [10, 15, 20, 25, 30]

total = sum(list1)

print("Sum of list : ",total)

**OUT PUT**



1. **PGM 4**

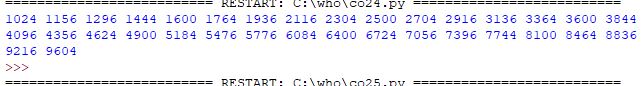
from math import sqrt as s

for i in range(1000,10000):

if s(i)==int(s(i)) and i%2==0:

print(i,end=" ")

**OUT PUT**



1. **PGM 5**

rows=int(input("enter a number of rows"))

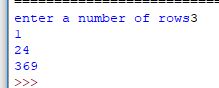
for i in range(1,rows+1):

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

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

print()

**OUT PUT**



1. PGM 7

str=input("enter a string")

print("inputted string is ",str)

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

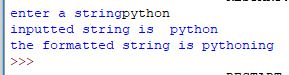
str=str+'ly'

else:

str=str+'ing'

print("the formatted string is",str)

**OUT PUT**



1. **PGM 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):

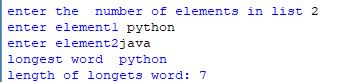
max1=len(i)

temp=i

print("longest word",temp)

print("length of longets word:",max1)

**OUT PUT**



1. **PGM 9**

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

for i in range(n):

for j in range(i):

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

print('')

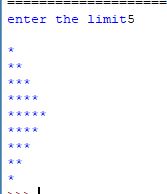
for i in range(n,0,-1):

for j in range(i):

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

print('')

**OUT PUT**



**10. PGM 10**

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

def fact(fact=1):

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

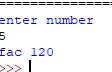
fact=fact\*i

i=i+1

print("fac",fact)

fact()

**output**

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**Co2-pgm-11**

import math

t\_area = lambda b,h :1/2\*b\*h

r\_area = lambda l,b :l\*b

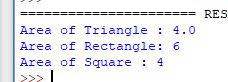
s\_area = lambda a : a\*a

print("Area of Triangle :", t\_area(4,2))

print("Area of Rectangle:", r\_area(3,2))

print("Area of Square :", s\_area(2))

**output**

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