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SRN: PES1PG20CA046

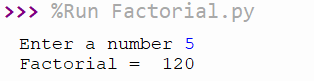
***Factorial of a number***

import math

x=int(input("Enter a number "))

print("Factorial = ",math.factorial(x))

Output:



***Distance between two points***

import math

x1=int(input("Enter x1 "))

x2=int(input("Enter x2 "))

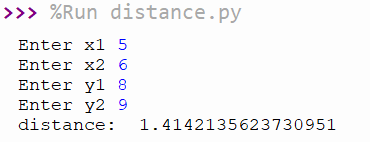
y1=int(input("Enter y1 "))

y2=int(input("Enter y2 "))

distance = math.sqrt((x2-x1)\*\*2+(y2-y1)\*\*2)

print("distance: ",distance)

Output:



***volume of a cone by taking user input***

import math

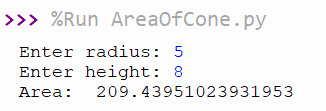
r=int(input("Enter radius: "))

h=int(input("Enter height: "))

area=(1/3\*math.pi\*(r\*r)\*h)

print("Area: ",area)

Output:



***Compound Interest based on user’s input***

import math

p=int(input("Enter principle amount "))

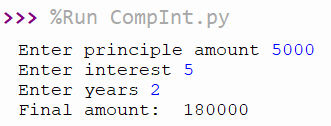
i=int(input("Enter interest "))

y=int(input("Enter years "))

a = (p\*(1+i)\*\*y)

print("Final amount: ",a)

Output:



***area of triangle given the 3 sides***

import math

a=float(input("enter side 1 "))

b=float(input("enter side 2 "))

c=float(input("enter side 3 "))

s=(a+b+c)/2

area=math.sqrt(s\*(s-a)\*(s-b)\*(s-c))

print("area: ",area)

Output:

