#1

import math

radius = float(input(' Please Enter the radius of a circle: '))

area = math.pi\*radius\*radius

print(" Area Of a Circle = %.2f" %area)

#2

n=int(input("Enter no. of sides"))

s=int(input("Enter the length of each side"))

area=n\*s/(4\*(math.tan(math.pi/n)))

print("Area of the polygon is ",area)

#3

diameter=int(input("Enter the length of the diameter: "))

chord=int( input( " Enter the chord length: "))

radius = (diameter/2)

theta = math.acos((radius\*2 + radius2 - chord2)/(2\*radius\*2))

area = 1/2 \* (theta - math.sin(theta)) \* radius\*\*2

print(area)

#4

import random

list = [100,1,2,3,30,40,'hai','hello']

random.shuffle(list)

print ("The shuffled list is : " + str(list))

#5

print("Random integer from 1 to 10000")

num2 = random.randrange(1,10000,50)

print("Random integer: ", num2)