**PYTHON ASSIGNMENT DAY 5**

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**1.Write a python program to find a circle using math function.**

Ans: import math

r=float(input(“enter the radius of the circle”))

area=math.pi\*r\*r

print(“%2f” %area)

**2.Write a program to find area of regular polygon**.

Ans: from math import tan

gravity=9.8

length=float(input(“enter the length of each side of polygon:”))

number=int(input(“enter the number of sides:”))

area=(number\*length\*\*2)/(4\*tan(pi/number))

print(“the area of polygon is %2f” %area)

**3.Write a program to generate random numbers between 1 to 100**

Ans: import random

print(random.randint(1,100))

**4.Write a python program by using math module to find**

\*sin 60

\*cos(pi)

\*tan 90

\*5^8

\*squareroot 400

\*floor and ceiling value of 23.56

Ans: **sin 60**

from math import sin

sine\_60=sin(60)

print("the sine of 60 is",sine\_60)

**cos(pi)**

import math

a=math.pi/6

print(“the value of cosine of pi/6 is:”,end=” “)

print(math.cos(a))

**tan 90**

from math import tan

tan\_90=tan90

tan90=math.tan(Radians90)

print(“the value of tan 90 is:”,tan\_90)

**5^8**

Import math  
 print(‘the value of 5^8’,+str(math.pow(5,8)))

**Squareroot 400**

num=400

num\_sqrt=num\*0.5

print(‘the square root of %0.3f is %0.3f’,num\_sqrt))

**floor and ceiling value of 23.56**

import math

print(“the floor value of 23.56”,math.floor(23.56))

print(“the ceiling of 23.56”,math.ceil(23.56))