```
In [1]: #Write a Python program to find area of a circle using math function.
        import math
        r = float(input('Enter the radius of the circle :'))
        area = math.pi * r * r
        print("Area of the circle is : %.2f" %area)
        Enter the radius of the circle :4
        Area of the circle is: 50.27
In [1]: #Write a program to find Area of Regular Polygon using math function.
        from math import tan, pi
        n sides=int(input("enter the number of sides:"))
        s length=float(input("enter the length of side:"))
        p area=n sides*(s length**2)/(4*tan(pi/n sides))
        print("the area of Polygon is:", p area)
        enter the number of sides:4
        enter the length of side:5
        the area of Polygon is: 25.000000000000004
In [3]: #Write a program to find Area of a Segment of a Circle Formula using m
        ath function.
        import math
        def area of segment(radius,angle) :
            area of sector=pi*(radius*radius) *math.sin((angle*pi)/360)
            area of traingle=1/2*(radius*radius)*math.sin((angle*pi)/180)
            return area of sector-area of traingle;
        radius=10.0
        angle=90.0
        print("area of minor segment=", area of segment(radius, angle))
        print("Area of major segment", area of segment(radius, (360-angle)))
```

```
area of minor segment= 172.1441469079183
        Area of major segment 272.1441469079183
In [4]: #Write a python program to shuffle list l1=[100,1,2,3,30,40,"hai","hell
        o"1.
        from random import shuffle
        list=[100, 1,2,3,30,40,'hai','hello']
        shuffle(list)
        print(list)
        [30, 3, 40, 'hai', 2, 100, 1, 'hello']
In [1]: #Write a program to generate random numbers between 1,10000 and differe
        nce between each random number is 50.
        import random
        randomlist=[]
        for i in range(0,10000):
            randomlist.append(random.randrange(1,1000,50))
        print('printing list of random numbers')
        print(randomlist)
        printing list of random numbers
        [501, 351, 651, 701, 551, 1, 701, 651, 501, 951, 301, 751, 501, 501, 5
        1. 651, 901, 1, 351, 351, 301, 101, 301, 601, 401, 101, 401, 201, 601,
        801, 701, 351, 751, 351, 601, 901, 701, 901, 351, 401, 451, 101, 501,
        1, 51, 351, 51, 751, 601, 151, 501, 551, 451, 1, 501, 601, 251, 1, 901,
        201, 101, 851, 801, 101, 51, 101, 501, 151, 801, 201, 551, 401, 201, 40
        1, 51, 51, 351, 51, 901, 701, 551, 51, 201, 801, 401, 851, 251, 151, 35
        1, 101, 301, 501, 751, 601, 851, 451, 251, 751, 701, 851, 51, 401, 651,
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        1, 351, 951, 501, 351, 851, 101, 451, 851, 401, 801, 551, 1, 501, 601,
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        801, 601, 451, 201, 201, 301, 51, 451, 701, 251, 901, 1, 151, 251, 701,
        601, 501, 751, 701, 201, 701, 701, 151, 551, 301, 551, 951, 301, 201, 3
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In [3]: #Write a python program by using math module to find
        import math
        print("sin 60=",math.sin(60))
        print("cos pi=",math. cos(math.pi))
        print("tan 90=", math. tan(90))
        print("angle of sin 0.866025=", math.sin(0.8660254037844386))
        print("5^8=", math.pow(5, math.e))
        print("log(1024)base 2=",math.log2(1024))
        print("log(1024)base 10=",math.log10(1024))
        print ("floor value of(23.56)=", math.floor(23.4))
        print("ceeling value of(23.56))=",math.ceil(23.56))
        sin 60= -0.3048106211022167
        \cos pi = -1.0
        tan 90= -1.995200412208242
        angle of sin 0.866025= 0.7617599814162892
        5^8= 79.43235916621322
        log(1024)base 2 = 10.0
        log(1024)base 10= 3.010299956639812
        floor value of (23.56) = 23
        ceeling value of(23.56))= 24
```