```
Write a python program to find
area of a circle veing moth
function.
    def find Areato:
      import math
      ot = float (int Cinput (" Enter the madius cincle: ")))
       agrea = matto pi * + * r
       Print (" 1/2f 1. anea)
    output: Enter the madius of Circle: 4
           50. 26.
a write a program to find Area of Regular Polygon
   Using math function.
                                         Output: Enter the length: 4
   from matte import tan, pi
                                          Enter num of sides : 4
   const = 9.8
                                             16.000.
   len = float (Priput (" Enter the length:"))
  nom = int (input (" Enter num of Sides: "))
  agrea = ((num * leng** 2) / (4 * tan (Pi/num)))
  Print ("% 2f" 1. asiea).
3. Water write a program to find Area of
 a segment of a circle Formula using
  matte function.
       Imposit math
       Pi = 3.14159
      8 = float Cint Cinput (" Enter a promiser"))
      Angle = 90.0
      Agras/2 x 12 x ((Pi/180)0-sino)
     Print (" Areo of minor segment = "
```

assea of segment (radius, angle))

```
Print ("Area of major segment ="
   Print = ("% 2f", a ziea)
 Output enter a gadius = 10
          Area of minor segment = 28.53
          Area of major segment = 285.61
4) wrête a python program to Shuffle List
       1 = [100, 1, 2, 3, 30, 40, "hai", "hello"]
    from random imposit shuffle
      11= [100,1,2,3,30,40, "hai", "hello"].
       Shaffle (11)
      Print (11)
   Output
         [hello, 100, hai, 30, 3, 40, 1, 2].
5) wrête a program to generate random numbers
   between 1,10000 and difference between Each
    random number Ps 500
    Imposit random
   Print (1 Generate grandom numbers between 1 and 10000)
    num1 = random · randrange (50)
   Print ("Random integer:", numi)
Output: - Random integer: 21.
```

```
6. Write a python program by using mattermodule to find.
    (i) Sin 60°
    Matti (Sta 600)
        from mattimport sin
         Sine - 60 = Sin (60)
       Print ("The sine of 60 = ", Sine-60)
    Output The Sine of 60 = -0.30481062
  (re) cos(pi)
      imposit math
       a = mattapi
    Print (" The value of Coine of Piis: ", End =" ")
      Print (math. cos (a))
   Output: -
      The value of covine of Pi it's -1.0
   ( tan 90°.
      from matti import tan
      tan_90 = tan(90).
     Print (" The tan of 90 = ", tan - 90)
 output. -1.99520041.
  (v) angle 0 6 8in (0.866025)
         sin(?) = 0.866025
         math. asin (0.866025)
   v) output: 1.0471915511
         matt. pow (518)
  Output: 390,625
```

sourt of 400 matti- Squt (400) output: 20 # 5 1e matte Sart (5, matte.e) Output: 79.43 2359. # log (1024) base 10 and 2. matte log 10 (1024) matt. log 2 (1024) output 4.010 30311 # floon and eiel. matt. Ceil (23.56) math. floor (23.56). Output: 24