

Python Assignment Day - 5

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```
1 #program to find area of circle in Python  
  using math file  
2 import math  
3 r = float(input("Enter the radius of the  
  circle: "))  
4 area = math.pi* r * r  
5 print("%.2f" %area)
```



Enter the radius of the circle: 4
50.27

[Program finished]

```
1 #program to find area of regular polygon|
2 from math import tan, pi
3 n_sides = int(input("Input number of
  sides: "))
4 s_length = float(input("Input the length of
  a side: "))
5 p_area = n_sides * (s_length ** 2) / (4 *
  tan(pi / n_sides))
6 print("The area of the polygon is: ",p_area)
7
```



```
Input number of sides: 4  
Input the length of a side: 20  
The area of the polygon is: 400.00000000000006  
[Program finished]
```

```
1 #program to find random numbers  
  between 1 and 1000|  
2 import random  
3  
4 print(random.randint(1,1000))
```





TAB



756

[Program finished]

#program by using math modules|

import math

pi=3.14

a=math.sin(60)

print(a)

b=math.cos(pi)

print(b)

c=math.tan(90)

print(c)

print('the value of 5^8:'+str(math.pow(5, 8)))

d=math.sqrt(400)

print(d)

e=math.ceil(23.56)


```
-0.3048106211022167  
-0.9999987317275395  
-1.995200412208242  
the value of 5^8:390625.0  
20.0  
24  
23
```

```
[Program finished]
```