Math.py

```
1 import math
2 pi=3.14
3 a=math.sin(60)
4 print(a)
5 b=math.cos(pi)
6 print(b)
7 c=math.tan(90)
8 print(c)
9 print('The value of 5^8
  is:'+str(math.pow(5,8)))
10 x=math.sqrt(400)
11 print(x)
12 y=math.ceil(23.56)
13 print(y)
```

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

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9 print('The value of 5^8
  is:'+str(math.pow(5,8)))
10 x=math.sqrt(400)
11 print(x)
12 y=math.ceil(23.56)
13 print(y)
14 z=math.floor(23.56)
15 print(z)
```

RandomNo.py

```
1 import random
2 print(random.randint(1,1000))
```

```
711
```

Polygon.py

```
1 from math import tan, pi
2 n= int(input("Number of sides: "))
3 if n<3:
4     print("Invalid no of sides for a
  polygon")
5 else:
6       s_length = float(input("The
  length of a side: "))
7       p_area = n*(s_length ** 2) / (4
  * tan(pi / n))
8       print("The area of polygon is:
  ",p_area)
9
10
```

```
Number of sides: 6
The length of a side: 4
The area of polygon is:  41.56921938165306
```

```
1 import math
2 r = float(input("Enter the radius of
  the circle:"))
3 area=math.pi*r*r
4 print("Area of circle is %.2f" %area)
```

```
Enter the radius of the circle:4
Area of circle is 50.27
```