

Math Function in python

Python contains the following math functions.

1.sin()

It is used to get sine of any number in radians.

```
import math
x=math.sin(2)
print("Result:",x)
"""
**Output**
Result: 0.9092974268256817
"""
```

2.cos()

It is used to get cosine of any number in radians.

```
import math
x=math.cos(2)
print("Result:",x)
"""
**Output**
Result: -0.4161468365471424
"""
```

3.tan()

It is used to get tangent of any number in radians.

```
import math
x=math.tan(2)
print("Result:",x)
"""
**Output**
Result: -2.185039863261519
"""
```

4.sqrt()

It returns the square root of any number.

```
import math
x=math.sqrt(16)
print("Result:",x)
y=math.sqrt(14)
print("Result:",y)
"""
**Output**
Result: 4.0
Result: 3.7416573867739413
"""
```

5.log10()

It returns the base-10 logarithm of any number.

```
import math
x=math.log10(10)
print("Result:",x)
y=math.log10(5)
print("Result:",y)
"""
**Output**
Result: 1.0
Result: 0.6989700043360189
"""
```

6.pow()

It is used to the power of any number.

if pow(a,b) then it returns a raised to the power b.

```
import math
```

```
x=math.pow(2,3)
```

```
print("Result:",x)
```

```
y=math.pow(5,2)
```

```
print("Result:",y)
```

```
"""
```

```
**Output**
```

```
Result: 8.0
```

```
Result: 25.0
```

```
"""
```

7.factorial()

It returns the factorial of any number.

```
import math
```

```
x=math.factorial(5)
```

```
print("Factorial of 5:",x)
```

```
y=math.factorial(4)
```

```
print("Factorial of 4:",y)
```

```
"""
```

```
**Output**
```

```
Factorial of 5: 120
```

```
Factorial of 4: 24
```

```
"""
```

8.exp()

It returns the exponential of any number.

```
import math
x=math.exp(0)
print("exp(0):",x)
y=math.exp(4)
print("exp(4):",y)
"""
**Output**
exp(0): 1.0
exp(4): 54.598150033144236
"""
```

9.floor()

It returns the largest integer less than or equal to given number.

```
import math
print(math.floor(3.2))
print(math.floor(3.5))
print(math.floor(3.9))
"""
**Output**
3
3
3
"""
```

10.ceil()

It returns the smallest integer greater than or equal to given number.

```
import math
```

```
print(math.ceil(3.2))
```

```
print(math.ceil(3.5))
```

```
print(math.ceil(3.9))
```

```
"""
```

```
**Output**
```

```
4
```

```
4
```

```
4
```

```
"""
```

