In [1]:

```
#Math module
# A Module is a collections of functions,variables and classes etc;
# math is a module that contains several functions to perform mathematical operations.
```

In [2]:

```
# if we want to use any module in python, first we have to import that module.
import math
```

In [3]:

```
#once we import that module we can call any function of that module.
print(math.sqrt(36))
```

```
6.0
```

In [4]:

```
print(math.pi)
```

```
3.141592653589793
```

In [5]:

```
# we can create alias name by using as keyword
import math as m
```

In [8]:

```
# once we create alias name, by using that we can access functions and variables of that module.
print(m.sqrt(36)) # returns square root of the number
```

```
6.0
```

In [9]:

```
print(m.pi) #returns pi value
```

```
3.141592653589793
```

In [23]:

```
# Important functions of math module
import math as m
print(m.ceil(10)) # ceil(x)
print(m.floor(10))# floor(x)
print(m.pow(5,6))# pow(x,y)
print(m.factorial(6))# factorial(x)
print(m.trunc(5))# trunc(x)
print(m.gcd(20,30))# gcd(x,y)
print(m.sin(30))# sin(x)
print(m.cos(60))# cos(x)
print(m.tan(45))# tan(x)
```

```
10
10
15625.0
720
5
10
-0.9880316240928618
-0.9524129804151563
1.6197751905438615
```

In [27]:

```
# important variables in math module
import math as m
print(m.pi) # returns pi value
print(m.e) # returns e value
print(m.inf) # returns n
print(m.nan)
```

```
3.141592653589793
2.718281828459045
inf
nan
```