28-10-2025

package = Library(Collection of module)

Module = Collection of function

Function = Collection of statement .inbuild function .user define function

Math Module

In [1]:
```
name1 = 'fine'
name1 = name1[1:]
name1 = 'd' + name1
name1
```

Out[1]: 'dine'

In [2]:
```
help()
```

```
Welcome to Python 3.13's help utility! If this is your first time using
Python, you should definitely check out the tutorial at
https://docs.python.org/3.13/tutorial/.

Enter the name of any module, keyword, or topic to get help on writing
Python programs and using Python modules.  To get a list of available
modules, keywords, symbols, or topics, enter "modules", "keywords",
"symbols", or "topics".

Each module also comes with a one-line summary of what it does; to list
the modules whose name or summary contain a given string such as "spam",
enter "modules spam".

To quit this help utility and return to the interpreter,
enter "q", "quit" or "exit".

You are now leaving help and returning to the Python interpreter.
If you want to ask for help on a particular object directly from the
interpreter, you can type "help(object)".  Executing "help('string')"
has the same effect as typing a particular string at the help> prompt.
```

Swapping variable in python

In [3]:
```
a,b = 5,6
print(a, b)
```

```
5 6
```

In [4]:
```
a, b = b, a
```

In [5]:
```
print(a, b)
```

```
6 5
```

In [6]:
```
a2 = 5
b2 = 6
```

Using addition and Subtraction

In [7]:
```
a2 = a2 + b2
b2 = a2 - b2
a2 = a2 - b2
print(a2, b2)
```

```
6 5
```

Import math function

In [8]:
```
import math
```

In [9]:
```
x = math.sqrt(25)
x
```

Out[9]: 5.0

In [10]:
```
x1 = math.sqrt(15)
x1
```

Out[10]: 3.872983346207417

floor and ceil

In [11]:
```
print(math.floor(2.9))
print(math.ceil(2.9))
```

```
2
3
```

In [12]:
```
print(math.pow(3,4))
```

```
81.0
```

In [13]:
```
print(math.pi)
```

```
3.141592653589793
```

In [14]:
```
print(math.e)
```

```
2.718281828459045
```

In [15]:
```
import math as m

m.sqrt(10)
```

Out[15]: 3.1622776601683795

In [16]:
```
from math import sqrt, pow

pow(25, 3)
```

Out[16]: 15625.0

Run python code using cli(command line interpreter)

.open the text file .write few lines code & save to .py file cmd-cd desktop -- python test.py