Python Modules

> Modules are pre-witten pieces of code that are used to perform common tasks like generating random number, performing mathematical operations, etc.

The basic way to use a module is to add `import module_name`

In [12]:
```
import sys
```

In [13]:
```
print('PYTHONPATH = \n',sys.path)
```

```
PYTHONPATH =
 ['', 'C:\\Users\\srikanth\\Anaconda\\python36.zip', 'C:\\Users\\srikanth\\Anac
onda\\DLLs', 'C:\\Users\\srikanth\\Anaconda\\lib', 'C:\\Users\\srikanth\\Anacon
da', 'C:\\Users\\srikanth\\Anaconda\\lib\\site-packages', 'C:\\Users\\srikanth
\\Anaconda\\lib\\site-packages\\win32', 'C:\\Users\\srikanth\\Anaconda\\lib\\si
te-packages\\win32\\lib', 'C:\\Users\\srikanth\\Anaconda\\lib\\site-packages\\P
ythonwin', 'C:\\Users\\srikanth\\Anaconda\\lib\\site-packages\\IPython\\extensi
ons', 'C:\\Users\\srikanth\\.ipython']
```

`from ... import statement`

In [14]:
```
import math
```

In [ ]:
```

```

multiple import

`from .... import function1, function2 , ...`

In [15]:
```
from math import sqrt,ceil
```

In [16]:
```
sqrt(ceil(5.3))
```

Out[16]:
```
2.449489742783178
```

working on your modules

In [17]:
```
import srikanth
```

In [18]:
```
srikanth.addition(4,6)
```

Out[18]:
```
10
```

In [19]:
```
srikanth.fibonacci_series(1,10)
```

```
0,1,1,2,3,5,8,13,21,34
```

dir()

In [20]:
```
dir(srikanth)
```

Out[20]:
```
['__builtins__',
 '__cached__',
 '__doc__',
 '__file__',
 '__loader__',
 '__name__',
 '__package__',
 '__spec__',
 'addition',
 'fibonacci_series',
 'string']
```

In [21]:
```
import calendar
```

In [22]:
```
print(calendar.month(2018,11))
```

```
   November 2018
Mo Tu We Th Fr Sa Su
          1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30
```

In [ ]: