

Modules & Packages

1. Importing Module

2. Writing your own Module

3. Significance of '__name__'

4. Writing Package

* Significance of '__init__.py'

* Importing all the python modules from Package

In [1]:

```
# importing Python module
import math # Generic import

answer = math.sqrt(100)
print("Square Root: %.2f" % answer)
print("Functions in math module:\n" + str(dir(math)))
```

Square Root: 10.00

Functions in math module:

```
['__doc__', '__loader__', '__name__', '__package__', '__spec__', 'acos', 'acosh', 'asin', 'asinh', 'atan', 'atan2', 'atanh', 'ceil', 'copysign', 'cos', 'cosh', 'degrees', 'e', 'erf', 'erfc', 'exp', 'expm1', 'fabs', 'factorial', 'floor', 'fmod', 'frexp', 'fsum', 'gamma', 'gcd', 'hypot', 'inf', 'isclose', 'isfinite', 'isinf', 'isnan', 'ldexp', 'lgamma', 'log', 'log10', 'log1p', 'log2', 'modf', 'nan', 'pi', 'pow', 'radians', 'sin', 'sinh', 'sqrt', 'tan', 'tanh', 'tau', 'trunc']
```