

Module15 : Python Modules

In [1]:

```
def name_func(name):  
    print("Hello," + name)  
  
tata = {'car':'altroz',  
        'year':'2020',  
        'type':'sedan'  
}  
  
def add(x,y):  
    print(x+y)  
  
def powerof(x):  
    return x**5
```

Create **mymod1.py** file and write the above code which is commented. And save it!

Then create another file in jupyter notebook import the above file with its name as mentioned below

NOTE: Keep both the files in the same working directory.

In [2]:

```
import mymod1
```

There is a built-in function **dir()** to list all the function names(or variables name) in a module.

dir() function

In [3]:

```
check_all = dir(mymod1)    #dir() will store the names of functions, classes and variables  
in check_all  
print(check_all)  
  
['_builtins_', '__cached__', '__doc__', '__file__', '__loader__', '__name__', '__package__',  
 '__spec__', 'add', 'name_func', 'powerof', 'tata']
```

In [4]:

```
var = mymod1.name_func('Pradeep')  
var
```

Hello,Pradeep

In [5]:

```
mymod1.add(4,8)    # we have a add function defined in our module named 'mymod1'  
  
12
```

In [6]:

```
import mymod1  
x = mymod1.tata["car"]  
print(x)
```

altroz

Built-In Modules

In [7]:

```
import platform          #platform is an inbuilt module
x = platform.system()    #accessing the system function platform library
print(x)
```

Windows

Renaming a Module --- ALIASING

Aliasing happens whenever one variable's value is assigned to another variable, because variables are just names that store references to values.

In [8]:

```
import mymod1 as md      # md is an alias of 'mymod1' module

a = md.add(2,3)
a
```

5

Import From Module

In [9]:

```
from mymod1 import tata  #importing the 'tata' variable from the module "mymod1"

print(tata['year'])       #from the 'tata' variable import the value of 'year' element/
key
```

2020

In [10]:

```
from mymod1 import powerof  # importing the function 'powerof' from module name 'mymod1'

powerof(2)                  # power is 5
```

Out[10]:

32

In [11]:

```
# pip install nbconvert          # it will install the pdf converter for ipnb files in jupyter
er notebook
```

In []:

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