modules and packages:

```
- module:
        - It is a collection of functions.
        - module is nothing but .py file..
        - In thar module we declare functions,global variables,classes.
        - we can use import keyword.
- syntax:
        import module_name(.py file name)
        - Accessing module:
                        module_name.function_name()
                        module_name.variable_name
                        module_name.class_name
```

modules

```
In [2]:  import test
         test.greeting()
```

```
Hello everyone!...
```

```
In [3]:  test.addtion(100,200)
```

Out[3]: 300

```
In [4]:  test.a
```

Out[4]: 100

```
In [5]: help(test)# here test is module name
```

```
Help on module test:

NAME
    test

FUNCTIONS
    addtion(a, b)

    factorial(n)

    greeting()

DATA
    a = 100

FILE
    c:\users\bhavya\sept-public-batch2021\test.py
```

```
In [7]: import test as t #alias names
        t.factorial(5)
        t.a
```

```
Out[7]: 100
```

```
In [8]: #By using from method we can import the module..
        #syntax: from module_name import function_name
        from test import addtion
        addtion(12,45)
```

```
Out[8]: 57
```

```
In [9]: from test import addtion as ad
        ad(12,45)
```

```
Out[9]: 57
```

```
In [11]: from test import addtion,greeting,a,factorial
         print(addtion(10,34))
         print(a)
```

```
44
100
```

```
In [14]:  from test import * # using * we can access the all functions and variables..
          a
          addtion(23,67)
          factorial(45)
```

Out[14]: 11962222086548019456196316149565771506438373376000000000

packages:

```
            - package:
                        - package is a directory(folder) of such modules..
            - syntax:
                        import package_name.module_name
            - Accessing:
                        - package_name.module_name.function_name
                        - package_name.module_name.variable_name
```

```
In [15]:  import package.menu
          package.menu.hello()
```

I am from package folder!..

```
In [17]:  # using from method..
          #syntax: from package_name.module_name import function_names,variable_names
          from package.menu import hello,p
          p
          hello()
```

I am from package folder!..

```
In [18]:  from package.menu import *
          hello()
```

I am from package folder!..

```
In [19]:  substraction(23,67)
```

Out[19]: -44

In [21]: `help(package.menu)`

```
Help on module package.menu in package:

NAME
    package.menu

FUNCTIONS
    hello()

    substraction(a, b)

DATA
    p = 34

FILE
    c:\users\bhavya\sept-public-batch2021\package\menu.py
```

In [ ]: