# PYTHON - MODULE

**What is Module? full Explanation.**

--> Modules are nothing but group of functions, variables and classes that are saved to a file. Every python (.py) file act as module

**note: -**
    i. code reusability.
    ii. if python file (first.py) called module then its module name should be first.

**Module Alising: -**

    To improve readability.

    To prevent name conflecting….

**types: -**    1. pre-defined random calender keyword
          2. user-defined first add codefile

**example: -**

    **first.py**                          **second.py**

```
    def show():              import first
      print("Hello")         first.show()
```

# <u>Practical</u>: -

*# pre-defined Module #*

```
import calendar
print(calendar.month(2024,1))

import keyword
print(keyword.kwlist)
```

# **first.py** File Define and **call**

*# User-defined Module #*

```
def show(): # function Define
    print("Hi, Shri")

show()        # calling Function
```

## <u>Output:</u> -
```
Hi, Shri
```

## *Using **Import** keyword*
**Ex. 1: -**

**First File**       **: - first.py**

```
# User-defined Module #

def show():      # function Define
    print("Hi, Shri")
```

**Second File**      **: - second.py**

```
# User-defined Module #

import first
print(first.show())
```

**Execute Second File**

## **Output: -**
```
Hi, Shri
None
```

**Note: - Define Multiple Function in first first.py file and run using sencond second.py file using import module.**

## Ex. 2: -

**First File       : - first.py**

```
# User-defined Module #

    def calculator(a,b):
        print("Addition: ",a+b)
        print("Subtraction: ",a-b)
        print("Multiplication: ",a*b)
        print("Division: ",a/b)
```

**Second File     : - second.py**

```
# User-defined Module #

    import first
    first.calculator(8,3)
```

**Execute Second File**

## Output: -

```
    Addition:  11
    Subtraction:  5
    Multiplication:  24
    Division:  2.6666666666666665
```

## *Using **From** Keyword*
## <u>Ex. 3: -</u>

**First File**     **: - first.py**

```
# User-defined Module #
import calendar
     def calculator(a,b):
         print("Addition: ",a+b)
         print("Subtraction: ",a-b)
         print("Multiplication: ",a*b)
         print("Division: ",a/b)

     def greeting():
         print("Good Morning")

     def month():
         print(calendar.month(2023,12))
```

**Second File**     **: - second.py**

```
# User-defined Module #

from first import month,greeting
     month()
     greeting()
```

<u>**Execute Second File**</u>

## <u>Output: -</u>

```
        December 2023

    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 31


    Good Morning
```

**Note: -  Print All method in first.py file used astric(*) to import module.**

**Vishal Sir.**      8983226463
<br>Cbangp31@gmail.com