

Module

- A module can contain predefined variable , functions , classes and we use this things in different programs with the help of import
- Modules are nothing but python files . Normal programs can be modules too
-

```
total_amount = 2000  
  
def add(x,y):  
    return x+y  
  
def sub(x,y):  
    return x-y
```

-
- Lets save this program as ModuleOne

```
import ModuleOne as mo  
  
n1 = 10  
  
n2 = 20  
  
print('Sum',mo.add(n1,n2))  
  
print('Diff',mo.sub(n2,n1))  
|  
print(mo.total_amount)
```

-
- And this program as MyProgram
- In program ModuleOne we are defining the function and in program Myprogram we are calling the function (add , sub)
- What happens if we write print function in ModuleOne program??

- it will print that function in MyProgram output
- If we want to execute only MyProgram.py but not ModuleOne.py(add and subtract) print function
- For this we can use print (`__name__`)
- It means the printing should be done only if its in main . If it is importing then don't execute the print function
- We can also write

```
if __name__ == '__main__':  
    print(__name__)  
    print('From Module One', add(20, 30))  
    print('From Module One', sub(50, 10))
```