

## FILE HANDLING

### PROGRAMS

#Module calculator with add() and subtract() function and import this module and use functions

```
def add(x, y):  
    return (x+y)
```

```
def subtract(x, y):  
    return (x-y)
```

**#calculator.py file**

```
import calculator  
print(add(10, 2))
```

**#main.py**

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#create a package named Employees in our home directory.  
Consider the following steps.

1. Create a directory with name Employees on path /home.
2. Create a python source file with name Permanentemployee.py on the path /home/Employees.

Permanentemployee.py

```
def getPerNames():  
    List = ["Aman", "Mohit", "Vishal", "Naren"]  
    return List
```

3. Similarly, create one more python file with name Tempemployees.py and create a function getTempNames().

4. Now, the directory Employees which we have created in the first step contains two python modules. To make this directory a package, we need to include one more file here, that is `__init__.py` which contains the import statements of the modules defined in this directory.

`__init__.py`

```
from Permanentemployee import getPerNames
```

```
from Tempemployees import getTempNames
```

5. Now, the directory Employees has become the package containing two python modules. Here we must notice that we must have to create `__init__.py` inside a directory to convert this directory to a package.

6. To use the modules defined inside the package Employees, we must have to import this in our python source file. Let's create a simple python source file at our home directory (/home) which uses the modules defined in this package.

Main.py

```
import Employees  
print(Employees.getPerNames())
```

Output:

```
["Aman", "Mohit", "Vishal", "Naren"]
```

#Create a file named `numbers.py` with the following contents.

```
def printForward(n):
```

```
    #print 1 to n
    for i in range(n):
        print(i+1)
```

```
def printBackwards(n):
```

```
    #print n to 1
    for i in range(n):
        print(n-i)
```

import this module with the following command in `main.py` file

```
import Numbers as N
print(N.printBackward(5))
```