



FACULTY OF Engineering &
Technology

Public

The **public access modifier** is accessible everywhere. It has the widest scope among all other modifiers

The members, methods and classes that are declared public can be accessed from anywhere.

This modifier doesn't put any restriction on the access.

```
package pack1;  
public class Addition  
{  
    public int adds(int a, int b)  
    {  
        return a+b;  
    }  
}
```

```
Package pack2;  
import pack1.*;  
class Test  
{  
    public static void main(String args[])  
    {  
        Addition obj = new Addition();  
        System.out.println(obj.add(100, 1));  
    }  
}
```

Output: 101

Encapsulation in Java

1. It is a *process of wrapping of methods and data together into a single unit class*, for example, a capsule which is mixed of several medicines.
2. We can create a fully encapsulated class in Java by making all the data members of the class private.
3. Use setter and getter methods to set and get the data in it.

```
public class Student{  
    //private data member  
    private roll;  
    //getter method for name  
    public String getRoll()  
    {  
        return roll;  
    }  
    public void setRoll(String name){  
        this.roll=name;  
    }  
}
```

Here class student has private datamember roll and public method getroll and setroll

Package:

1. Package is the collection of similar type of classes and interfaces.
2. Package in java can be categorized in two form, built-in package and user-defined package.
3. There are many built-in packages such as java, lang, awt, javax, swing, net, io, util, sql etc.

