

How to create package?

```
package world;
```

```
public class HelloWorld {
```

```
    public static void main(String[] args) {  
        System.out.println("Hello World");  
    }
```

```
}
```

❑ Now compile this file as

```
path> javac -d . HelloWorld.java
```

```
>javac HelloWorld.java
```

```
>javac -d . HelloWorld.java
```

With class

- ☐ Outer class and inner class
- ☐ For outer class, there can be only two possibilities, either class is a public class or just a class which means it is of default type.
- ☐ For inner class any among four access modifiers can be used

```
package pack2;
public class Student
{
    private int rollno;
    private String name;
    public void setRollno(int r)
    { rollno=r; }
    public void setName(String n)
    { name=n; }
    public int getRollno()
    { return(rollno); }
    public String getName()
    { return(name); }
}
```

```
Example.java - Notepad
File Edit Format View Help
package pack1;
import pack2.Student;
public class Example
{
    public static void main(String []args)
    {
        Student s1=new Student();
        s1.setRollno(100);
        s1.setName("Saurabh");
        System.out.println("Roll No:"+s1.getRollno());
        System.out.println("Name:"+s1.getName());
    }
}
```

```
>javac -d . Student.java
>javac -d . Example.java
>java pack1.Example
```

Access Modifier	within class	within package	outside package by subclass only	outside package
Private	Y	N	N	N
Default	Y	Y	N	N
Protected	Y	Y	Y	N
Public	Y	Y	Y	Y

```
class A{  
  private int data=40;  
  private void msg(){System.out.println("Hello java  
");}  
}
```

```
public class Simple{  
  public static void main(String args[]){  
    A obj=new A();  
    System.out.println(obj.data);  
    //Compile Time Error  
or  
    obj.msg();  
    //Compile Time Error  
  }  
}
```

1. //save by A.java
2. **package** pack;
3. **class** A{
4. **void** msg(){System.out.println("Hello");}
5. }

1. //save by B.java
2. **package** mypack;
3. **import** pack.*;
4. **class** B{
5. **public static void** main(String args[]){
6. A obj = **new** A();//Compile Time Error
7. obj.msg();//Compile Time Error
8. }
9. }

```
package pack;  
public class A{  
public void msg(){System.out.println("Hello");}  
}
```

//save by B.java

```
package mypack;  
import pack.*;
```

```
class B{  
    public static void main(String args[]){  
        A obj = new A();  
        obj.msg();  
    }  
}
```