Packages

*) A package is basically collection of different classes or interfaces.

*) The grouping is done on the basis of functionality.

Benifits

*) The classes contained in a packages can be used in any program that imports the classes.
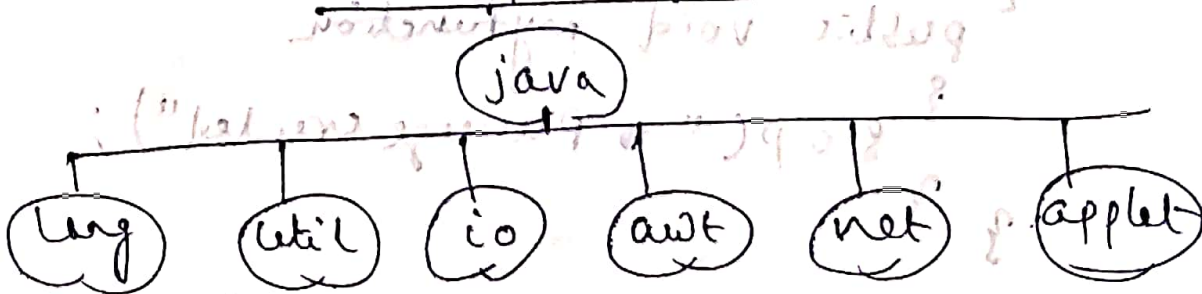
#) provid a way to hide classes.

#) ## Types

→ API Packages
→ User defined Packages.

API packages (Application Programming Interfaces)

*) Provides a way to group different classes into different packages.
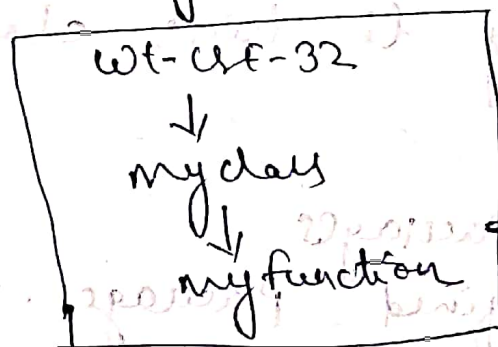
+) Builtin packages.

*) ## API packages.

e.g. import java.util.Scanner;

User defined Packages

e.g. Suppose I want to create a package "Wt-CSE-32" & inside that package I want to create a class "myclass" & inside the class one function "myfunction".

```
Wt-CSE-32
   ↓
myclass
   ↓
myfunction
```

*) Create the subdirectory with the same name inside bin directory of java.

C:\ Program files \ java \ bin \

e.g:-
```
package Wt-CSE-32;
public class myclass
{
   public void myfunction
   {
      S.o.p(" Package created");
   }
}
```
__Save as__ myclass.java.

Q2

```
package Pack1;

public class test
{
    public void show()
    {
        S.o.p("Hello");
    }
}
```
→ Save as test.java

7 javac -d . test.java

```
import Pack1.test;

class xyz
{
    p.s.v.m()
    {
        test obj = new test();
        obj.show();
    }
}
```

Access control

Specifier	Same class	Same package		Other package	
		child class	Non-child class	child class	Non-child class
Public	Yes	Yes	Yes	Yes	Yes
Protected	Yes	Yes	Yes	Yes	No
Default	Yes	Yes	Yes	No	No
Private	Yes	No	No	No	No