Package => It is an encapuslation mechanism to group all the related classes and interface in single module

While using inbuilt classes also, internally sunmicrosystem has used the pacakges to keep the classes.

## Objectives of packages

\_\_\_\_\_

- 1. It resolves the name conflicts
- 2. It imporoves modularity(maintainence) of the application
- 3. It provides security
- 4. It helps the programmer to debug the application in a easy way be referring to the pacakges.

```
packages naming convention followed by sunmicrosystem
StringBuilder
StringBuffer
String
NullPointerException
ArithmeticException
System
Scanner
javac Sample.java => it would just compile the .class file
javac -d . Sample.java
 -d => indicates the destination folder where the package should be created.
  . => indicates the location where the package should be created.
     it represent the curren location.
eg:
package in.ineuron;
public class Sample
public static void main(String[] args)
 System.out.println("Hey i am working with packages");
upon using the command javac -d. Sample.java
 =>java compiler has created the package and stored the .class file inside the package.
Standard Structure of java program
  1. package statement(only one should be there)
```

- 2. import statement(can be any number)
- 3. declartion of class/interface/enum (any number, but only one should be marked as public)

refer: packageConcepts.png