# Day-4

# Agenda

For Loop
For Each Loop
Class
Package

for loop

This is the most commonly used loop to retrieve the data from Array or Collections.

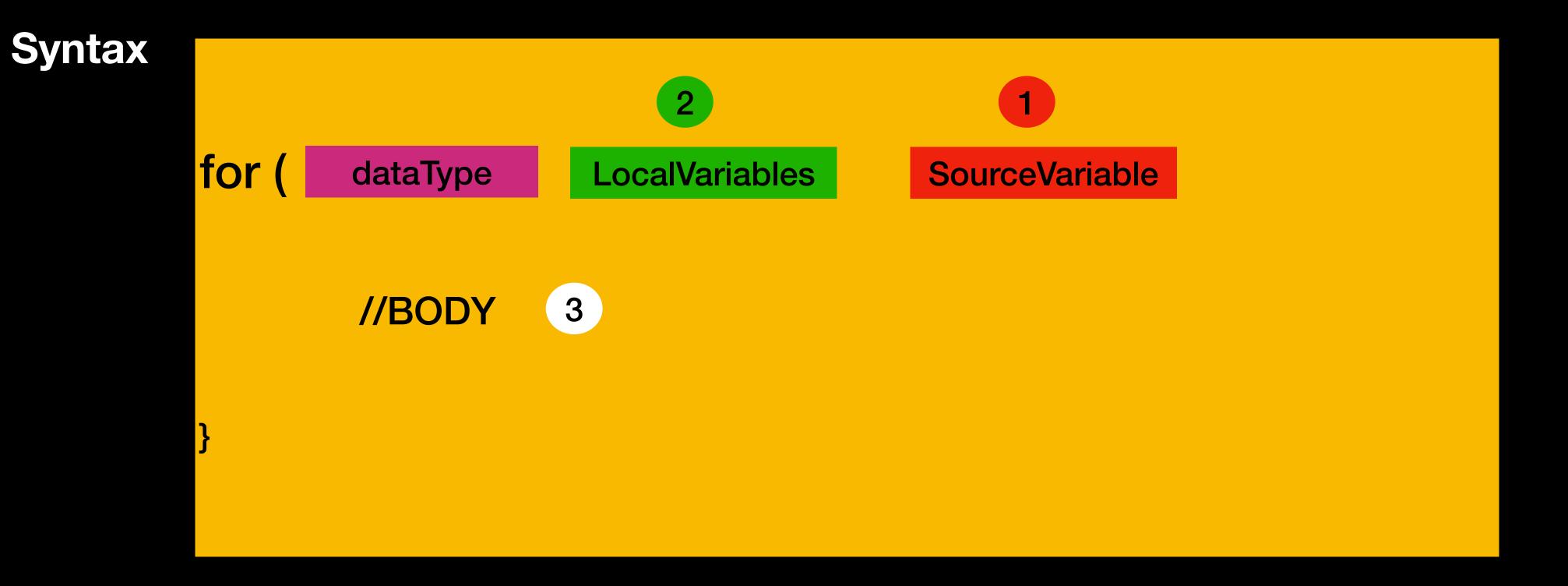
## **Syntax**

```
for (initial-Section; conditional-Expression; increment/decrement) {

//BODY 3 6 9
}
```

for each loop

This loop is also called as enhanced for loop. Introduced in 1.5V. Most convent loop to retrieve the data from Array & Collections



Flow Control

Break

We can use break statement to stop the execution.

Flow Control

Continue

We can use continue statement to skip the current execution & skip for the next execution.

### Class

When ever we are writing our own java class compulsory we have to provide information about

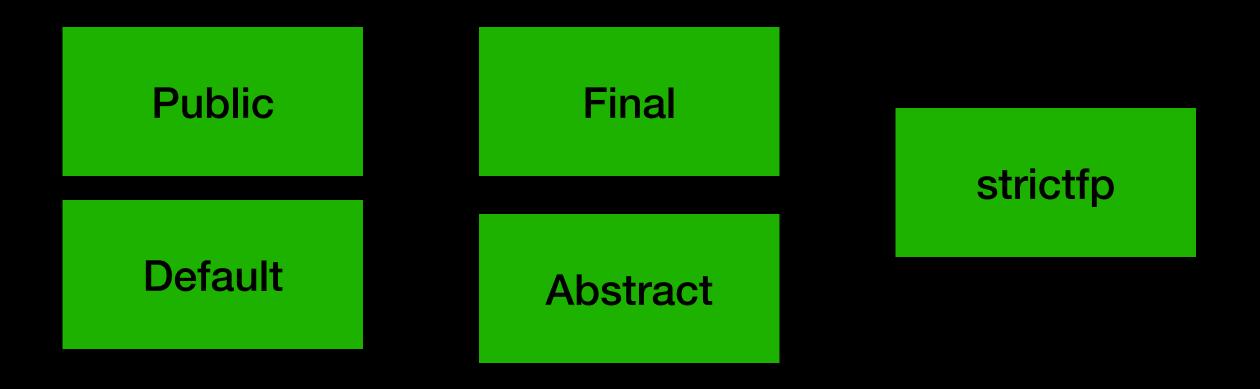
Our class to JVM

Whether our class can be accessible from anywhere or not

Whether child class creation is possible for our class or not

Whether instantiation is possible or not.

We can Specify this information by declaring with appropriate modifier. Which is ....



It is Encapsulation mechanism to group related class and interface in to single module. The main purpose of packages are ....

To Resolve Naming conflict

To provide Security to the class & interface . So that outside person can not access directly It improve the modularity of the application .

In any JAVA program there should be only at most one package statement. In any JAVA program the first non comment statement should be package statement.

#### Constructor

Object creation is not enough compulsory we should perform initialization then only that Object is in a position to provide response properly.

When ever we are creating an object some peace of the code will be executed automatically to perform initialization. This piece of code is nothing but constructor. Hence the main objective of Constructor is to perform initialization for the newly created object.

Rule to define the constructor

The name of the class and name of the constructor must be matched Return type concept is not applicable for constructor including void also.

The only applicable modifier for constructor are: "public, private, protected, default"

#### **Default Constructor**

If we are not writing any constructor then compiler will always generate default constructor. If we are writing at least one constructor then compiler would not generate default constructor. Hence a class can contain either programmer written constructor or compiler generated Constructor but not both simultaneously