There are three different types of variables a class can have in Java are **local variables, instance variables**, and **class/static** variables.

**Local Variable**

A **local variable** in Java can be declared locally in **methods**, **code blocks,**and **constructors**. When the program control enters the **methods, code blocks**, and **constructors** then the local variables are **created** and when the program control leaves the methods, code blocks, and constructors then the local variables are **destroyed**. A local variable **must be initialized** with some value.

**Example**

public class LocalVariableTest {

   public void show() {

      int num = 100; **// local variable**

      System.out.println("The number is : " + num);

   }

   public static void main(String args[]) {

      LocalVariableTest test = new LocalVariableTest();

      test.show();

   }

}

**Output**

The number is : 100

**Instance Variable**

An **instance variabl**e in Java can be declared **outside a block**, **method** or **constructor** but inside a class. These variables are **created** when the class **object is created** and **destroyed** when the class **object is destroyed**.

**Example**

public class InstanceVariableTest {

   int num; // instance variable

   InstanceVariableTest(int n) {

      num = n;

   }

   public void show() {

      System.out.println("The number is: " + num);

   }

   public static void main(String args[]) {

      InstanceVariableTest test = new InstanceVariableTest(75);

      test.show();

   }

}

**Output**

The number is : 75

**Static/Class Variable**

A **static/class variable** can be defined using the **static** keyword. These variables are declared**inside a class** but **outside a method**and **code block**. A class/static variable can be **created** at the **start of the program**and **destroyed** at the **end of the program**.

**Example**

public class StaticVaribleTest {

   int num;

static int count; // static variable

   StaticVaribleTest(int n) {

      num = n;

      count ++;

   }

   public void show() {

      System.out.println("The number is: " + num);

   }

   public static void main(String args[]) {

      StaticVaribleTest test1 = new StaticVaribleTest(75);

      test1.show();

      StaticVaribleTest test2 = new StaticVaribleTest(90);

      test2.show();

      System.out.println("The total objects of a class created are: " + count);

   }

}

**Output**

The number is: 75

The number is: 90

The total objects of a class created are: 2