**First Program in Java:**

**public** **class** FirstProgram {

**public** **static** **void** main(String[] args) {

System.***out***.println("Hello World!");

}

}

**What is class and object?**

Class: A program in java is written with class declaration. This is a basic plan using which we can create objects. All the program is enclosed in a class definition.

The body of the program is contained in a main method. In java the execution starts from main method.

"System" is a class in the java.lang package. "out" is a static member of the System class, and is an instance of java.io.PrintStream. "println" is a method ofjava.io.PrintStream. This method is overloaded to print message to output destination.

Object: An object is an instance of a class.

To create an object, we use the keyword “new”

**package** package1;

**public** **class** objectexample {

**int** a = 1;

**int** b = 2;

**public** **void** disp() {

objectexample obj = **new** objectexample();

System.***out***.println("b value is "+ obj.b);

}

**public** **static** **void** main(String[] args) {

objectexample ob = **new** objectexample();

System.***out***.println("a value is "+ob.a);

ob.disp();

}

}

In the above example we have created two objects.

objectexample obj = **new** objectexample();

objectexample ob = **new** objectexample();

**General Examples:**

If you want to construct a house, you will have a plan. The plan is nothing but a class. The constructed house is nothing but an object.

You can create any number of houses using the same plan. That means you can create any number of objects using a class.

Each and every house might differ in the number of rooms it has. That means objects will differ in their properties.

Example:

**package** package1;

**class** HousePlan {

**public** **int** bedrooms;

**public** **int** bathrooms;

}

**public** **class** House {

**public** **static** **void** main(String[] args) {

HousePlan a = **new** HousePlan();

a.bedrooms = 2;

a.bathrooms = 1;

HousePlan b = **new** HousePlan();

b.bedrooms = 3;

b.bathrooms = 2;

System.***out***.println("Bedrooms in House a "+a.bedrooms);

System.***out***.println("Bedrooms in House b "+b.bedrooms);

System.***out***.println("Bathrooms in House a "+a.bathrooms);

System.***out***.println("Bathrooms in House b "+b.bathrooms);

}

}