Multilevel inheritance in java with example
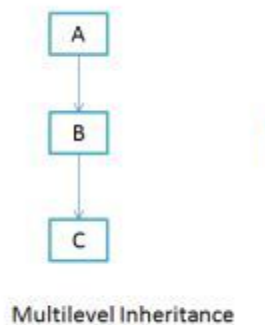
We discussed a bit about **Multilevel inheritance** in [types of inheritance in java](). In this tutorial we will explain multilevel inheritance with the help of **diagram** and **example program**.

Diagram representation:

Multilevel Inheritance

It's pretty clear with the diagram that in Multilevel inheritance there is a concept of grand parent class. If we take the example of above diagram then class C inherits class B and class B inherits class A which means B is a parent class of C and A is a parent class of B. So in this case class C is implicitly inheriting the properties and method of class A along with B that's what is called multilevel inheritance.

Example Program:

In this example we have three classes – Car, Maruti and Maruti800. We have done a setup – class Maruti extends Car and class Maurit800 extends Maurti. With the help of this Multilevel hierarchy setup our Maurti800 class is able to use the methods of both the classes (Car and Maruti).

```
package beginnersbook.com;
class Car{
       public Car()
       {
              System.out.println("Class Car");
       }
       public void vehicleType()
       {
              System.out.println("Vehicle Type: Car");
       }
}
class Maruti extends Car{
       public Maruti()
       {
              System.out.println("Class Maruti");
       }
       public void brand()
       {
              System.out.println("Brand: Maruti");
       }
       public void speed()
       {
              System.out.println("Max: 90Kmph");
       }
}
```

```java
public class Maruti800 extends Maruti{

        public Maruti800()
        {
                System.out.println("Maruti Model: 800");
        }
        public void speed()
                {
                        System.out.println("Max: 80Kmph");
                }
        public static void main(String args[])
        {
                Maruti800 obj=new Maruti800();
                obj.vehicleType();
                obj.brand();
                obj.speed();
        }
}
```

Output:

```
Class Car
Class Maruti
Maruti Model: 800
Vehicle Type: Car
Brand: Maruti
Max: 80Kmph
```