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## Aim:

Write Java program on use of Inheritance.

Create a class Vehicle

- contains the data members color of String type and speed and size of integer data type.
- write a method setVehicleAttributes() to initialize the data members

Create another class Car which is derived from the class Vehicle

- contains the data members cc and gears of integer data type
- write a method setCarAttributes() to initialize the data members
- write a method displayCarAttributes() which will display all the attributes.

Write another class InheritanceDemo with main() it receives five arguments color, speed, size, cc and gears.

## **Source Code:**

```
InheritanceDemo.java
```

```
import java.util.Scanner;
class Vehicle{
   String color;
   int speed;
   int size;
   void setVehicleAttributes(String c,String s,String sp)
      color=c;
      speed=Integer.parseInt(s);
      size=Integer.parseInt(sp);
   }
class Car extends Vehicle{
   int CC; int gears;
   void setCarAttributes(String c,String s,String sp,String cce,String gear)
      { setVehicleAttributes(c,s,sp);
         CC=Integer.parseInt(cce);
         gears=Integer.parseInt(gear);
         displayCarAttributes(); }
         void displayCarAttributes()
               System.out.println("Color of Car : "+color);
            System.out.println("Speed of Car : "+speed);
            System.out.println("Size of Car : "+size);
            System.out.println("CC of Car : "+CC);
            System.out.println("No of gears of Car : "+gears);
         }
   }
public class InheritanceDemo{
   public static void main(String args[]) {
      Car b1=new Car();
      b1.setCarAttributes(args[0],args[1],args[2],args[3],args[4]);
}
```

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## Execution Results - All test cases have succeeded!

Test Case - 1 User Output

Color of Car : Blue

Speed of Car : 100

Size of Car : 20

CC of Car : 1000

No of gears of Car : 5

Test Case - 2

User Output

Color of Car : Orange

Speed of Car : 120

Size of Car : 25

CC of Car : 900

No of gears of Car : 5