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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]);
```

}

Execution Results - All test cases have succeeded!

Test Case - 1
Jser Output
olor of Car : Blue
peed of Car : 100
ize of Car : 20
C of Car : 1000
o 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	