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2022-2026-CSE-B

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.*;
class Vechicle
  String color;
   int speed;
   int size;
   void setVechicleAttributes(String c,String s,String sp)
      color=c;
      speed=Integer.parseInt(s);
      size=Integer.parseInt(sp);
   }
}
class Car extends Vechicle
   int CC;
   int gears;
   void setCarAttributes(String c,String s,String sp,String cce,String gear)
   {
      setVechicleAttributes(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
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	
Jser Output	
Color of Car : Orange	
peed of Car : 120	
ize of Car : 25	
CC of Car : 900	
lo of gears of Car : 5	