Date:2023-10-15

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

```
class Vehicle
   String color;
   int speed;
   int size;
   public void setVehicalAttributes(String col,int sp,int si)
      color=col;
      speed=sp;
      size=si;
   }
class Car extends Vehicle
{
   int cc;
   int gears;
   public void setCarAttributes(int c,int ge)
      cc=c;
      gears=ge;
   }
   public 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);
      }
}
class InheritanceDemo
   public static void main(String args[])
```

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```
{
  Car c = new Car();
  c.setVehicalAttributes(args[0],Integer.parseInt(args[1]),Integer.parseInt(args
[2]));
  c.setCarAttributes(Integer.parseInt(args[3]),Integer.parseInt(args[4]));
  c.displayCarAttributes();
}
}
```

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	