S.No: 15	Exp. Name: ***Demonstrate the uses of super keyword***	Date:2023-11-03

Aim:

Write a program to demonstrate the uses of **super** keyword (three uses)

Create classes 'Vehicle' (with constructor and method) and 'Car' (inherit from 'Vehicle' with extra field). Employ 'super' to call superclass constructor, invoke a method, and access a variable. Implement a main method for user input, creating a 'Car' instance, displaying info, and starting the engine.

Source Code:

q17213/Main.java

```
package q17213;
import java.util.*;
class Vehicle
{
   String  Name;
   Vehicle(String Name)
   {
      this.Name=Name;
   }
   void display()
   {
      System.out.println("Name:"+Name);
   }
}
class Car extends Vehicle
{
   int year;
   Car(String Name,int year)
   {
      super(Name);
      this.year=year;
   }
   void display()
   {
      super.display();
      System.out.println("Year:"+year);
      System.out.println("Starting Car Engine:");
      System.out.println("Engine started");
      System.out.println("Car engine started");
   }
}
class Main
{
   public static void main(String args[])
   {
      String Name;
      int year;
      Scanner s=new Scanner(System.in);
      System.out.print("Enter the car name:");
      Name=s.nextLine();
      System.out.print("Enter the year of car:");
      year=s.nextInt();
```


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```
        System.out.println("Displaying Car Information:");
        Car c=new Car(Name,year);
        c.display();
    }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter the car name: BMW
Enter the year of car: 2022
Displaying Car Information:
Name:BMW
Year:2022
Starting Car Engine:
Engine started
Car engine started

Test Case - 2
User Output
Enter the car name: Ford Probe
Enter the year of car: 2021
Displaying Car Information:
Name:Ford Probe
Year:2021
Starting Car Engine:
Engine started
Car engine started

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