S.No: 15	Exp. Name: ***Demonstrate the uses of super keyword***	Date:2023-10-17

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 startEngine() {
      System.out.println("Starting Car Engine:\nEngine started");
   }
}
class Car extends Vehicle {
   int year;
   Car(String name, int year) {
      super(name);
      this.year = year;
   }
   void displayCarInfo() {
      System.out.println("Displaying Car Information:");
      System.out.println("Name:" + name);
      System.out.println("Year:" + year);
   }
   @Override
   void startEngine() {
      super.startEngine();
      System.out.println("Car engine started");
   }
}
public class Main {
   public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);
      System.out.print("Enter the car name:");
      String carName = sc.nextLine();
      System.out.print("Enter the year of car:");
      int carYear = sc.nextInt();
      Car car = new Car(carName, carYear);
      car.displayCarInfo();
      car.startEngine();
      sc.close();
   }
}
```

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