

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:");
        System.out.println("Engine started");
        System.out.println("Car engine started");
    }
}
class Car extends Vehicle
{
    int year;
    Car(String Name,int year)
    {
        super(Name);
        this.year=year;
    }
    void displayingInfo()
    {
        System.out.println("Name:"+super.name);
        System.out.println("Year:"+year);
    }
}
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();
```

```

        Car c = new Car(name,year);
        c.displayingInfo();
        c.startEngine();
    }
}

```

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