**Experiment 5**

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**Branch: BCA Section/Group: 2A**

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**Subject Name: IP LAB Subject Code: CAP-256**

1. **Aim/Overview of the practical: Use of SUPER keyword in java.**
2. **Task to be done:**

Create a class Vehicle having a method which take two different parameters year and model. Create an another class with car name for e.g. Maruti having a method taking 4 different parameters year, model, type and price. And show method which display all these a result. Create another class, and create an object of Maruti class and call the method by passing the argument taking value from user.

Output :

Model Type Year Price

Petrol-X Manual 2020 12.5

1. **Algorithm/Flowchart :**

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| **#algo** |
| **Create a class.**  **Define all variable in it.**  **Create another class.**  **Define main function in it**  **Create an object and assign upper class to it.**  **Write the code.**  **Use javac to compile you file.java**  **Use command java class name to execute the file.** |

1. **Dataset: Classes, Objects and super keyword**
2. **Code for experiment/practical:**

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| **#CODE** |
| **import java.util.Scanner;**  **class vehicle**  **{**  **int year;**  **String model;**  **void car(int year, String model)**  **{**  **this.year =year;**  **this.model = model;**  **}**  **}**  **class maruti extends vehicle**  **{**    **String type;**  **double price;**    **void cars(String model, String type, int year, double price)**  **{**  **super.year =year;**  **super.model = model;**  **this.type=type;**  **this.price=price;**  **}**  **void display()**  **{**  **System.out.println("Model \t Type \t Year \t Price");**  **System.out.println(model+"\t " + type +"\t "+ year +"\t " + price);**  **}**  **}**  **class actual**  **{**  **public static void main(String[] args) {**    **int year;**  **String type;**  **String model;**  **double price;**  **Scanner sc = new Scanner(System.in);**  **System.out.println("Enter the model of the car");**  **model=sc.nextLine();**  **System.out.println("Enter the type of the car: ");**  **type = sc.nextLine();**  **System.out.println("Enter the year of the car: ");**  **year = sc.nextInt();**  **System.out.println("Enter the price of the car: ");**  **price = sc.nextDouble();**  **maruti m = new maruti();**  **m.cars(model, type, year, price);**  **m.display();**  **}**  **}** |

1. **Result/Output/Writing Summary:**

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| **#OUTPUT** |
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**Learning outcomes (What I have learnt):**

**1. What is the use of super keyword in java.**

**2. How to implement super keyword in java.**

**3. Inheriting or invoking the immediate parent class using super keyword.**