Bring out the situation in which member names of a subclass hide members by the same name in the super class. How it can be resolved? Write Suitable code in Java and

Implement above scenario with the Parametrized Constructor (accept int type parameter) of the Super Class can be called from Sub Class Using super () and display the input values provided.

CODE:

import java.util.Scanner;

class Vehicle {

int speed;

public Vehicle(int speed) {

this.speed = speed;

}

}

class Car extends Vehicle {

int speed; // hiding the speed variable of superclass

public Car(int speed, int carSpeed) {

super(speed); // calling superclass constructor using super()

this.speed = carSpeed;

}

public void displaySpeed() {

System.out.println("Speed of Vehicle: " + super.speed); // accessing superclass member using super

System.out.println("Speed of Car: " + speed); // accessing subclass member

}

}

public class Vehicles {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter speed of Vehicle: ");

int vehicleSpeed = scanner.nextInt();

System.out.print("Enter speed of Car: ");

int carSpeed = scanner.nextInt();

Car car = new Car(vehicleSpeed, carSpeed);

car.displaySpeed();

scanner.close(); // Closing the scanner object

}

}

OUTPUT:

C:\javap>javac Vehicles.java

C:\javap>java Vehicles

Enter speed of Vehicle: 59

Enter speed of Car: 90

Speed of Vehicle: 59

Speed of Car: 90

