**LAB Assignment-2**

**Car details**

**package** megha;

**import** java.util.ArrayList;

**import** java.util.List;

**import** java.util.Scanner;

**class** Car1 {

**private** String make;

**private** String model;

**private** **short** year;

**private** **int** price;

// Constructor

**public** Car1(String make, String model, **short** year, **int** price) {

**this**.make = make;

**this**.model = model;

**this**.year = year;

**this**.price = price;

}

// Method to display car details

**public** **void** displayInfo() {

System.***out***.println("Car Make: " + make);

System.***out***.println("Car Model: " + model);

System.***out***.println("Car Year: " + year);

System.***out***.println("Car Price: $" + price);

System.***out***.println();

}

}

**public** **class** CarProgram {

**public** **static** **void** main(String[] args) {

Scanner scanner = **new** Scanner(System.***in***);

ArrayList<Car> cars = **new** ArrayList<>();

System.***out***.println("Welcome to the Car Program!");

System.***out***.print("How many cars would you like to enter? ");

**int** numberOfCars = scanner.nextInt();

scanner.nextLine(); // Consume the newline character

**for** (**int** i = 0; i < numberOfCars; i++) {

System.***out***.println("Enter details for car " + (i + 1) + ":");

System.***out***.print("Make: ");

String make = scanner.nextLine();

System.***out***.print("Model: ");

String model = scanner.nextLine();

System.***out***.print("Year: ");

**short** year = scanner.nextShort();

System.***out***.print("Price: ");

**int** price = scanner.nextInt();

scanner.nextLine(); // Consume the newline character

// Create a new Car object and add it to the list

Car car = **new** Car(make, model, year, price);

cars.add(car);

}

System.***out***.println("\nCar Details:");

**for** (Car car : cars) {

car.displayDetails();

}

scanner.close();

}

// **TODO** Auto-generated method stub

}

**Output**

Welcome to the Car Program!

How many cars would you like to enter? 1

Enter details for car 1:

Make: Toyto

Model: Glanza

Year: 2024

Price: 10 lack

Car Details:

Car Make: Toyto

Car Model: Glanza

Car Year: 2024

Car Price: 10

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**2nd program**

**package** megha;

**import** java.util.Scanner;

**class** Calculator {

// Method to add two integers

**public** **int** add(**int** a, **int** b) {

**return** a + b;

}

// Method to add three integers

**public** **int** add(**int** a, **int** b, **int** c) {

**return** a + b + c;

}

// Method to add two doubles

**public** **double** add(**double** a, **double** b) {

**return** a + b;

}

}

**public** **class** CalculatorProgram {

**public** **static** **void** main(String[] args) {

Scanner scanner = **new** Scanner(System.***in***);

Calculator calculator = **new** Calculator();

// Demonstrate adding two integers

System.***out***.println("Enter two integers to add:");

**int** int1 = scanner.nextInt();

**int** int2 = scanner.nextInt();

**int** sumOfTwoInts = calculator.add(int1, int2);

System.***out***.println("Sum of two integers: " + sumOfTwoInts);

// Demonstrate adding three integers

System.***out***.println("Enter three integers to add:");

**int** int3 = scanner.nextInt();

**int** sumOfThreeInts = calculator.add(int1, int2, int3);

System.***out***.println("Sum of three integers: " + sumOfThreeInts);

// Demonstrate adding two doubles

System.***out***.println("Enter two doubles to add:");

**double** double1 = scanner.nextDouble();

**double** double2 = scanner.nextDouble();

**double** sumOfDoubles = calculator.add(double1, double2);

System.***out***.println("Sum of two doubles: " + sumOfDoubles);

scanner.close();

}

}

**Output**

Enter two integers to add:

22 55

Sum of two integers: 77

Enter three integers to add:

33 45 21

Sum of three integers: 110

Enter two doubles to add:

Sum of two doubles: 66.0