

Lab2 -Assignment

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1) • Write a Java program named Car

- The Car class should have the following attributes: make (String), model (String), year (short), and price(int) .
- The car class should have a constructor that takes all the attributes.
- Add a main method to instantiate car objects.
- The program should allow the user to create and display objects of each

```
package com.wrapperclass.examples;
import java.util.Scanner;
public class Student {

    //attributes or data members or class variables

    private int idno;
    private String name, course;
    private float avg_marks;

    //function or method
    public void readdata()
    {
        Scanner obj = new Scanner(System.in);

        System.out.println("Enter idno ");
        idno=obj.nextInt();
        System.out.println("Enter Name of the
student ");
        name=obj.next();
        System.out.println("Enter Course name ");
        course=obj.next();
        System.out.println("Enter average marks
");
        avg_marks=obj.nextFloat();
```

```

    }

    protected void showdata()
    {
        System.out.println("IDNO "+ idno);
        System.out.println("Name "+ name);
        System.out.println("Course "+ course);
        System.out.println("Average "+ avg_marks);
    }
}

```

//MAIN METHOD

```

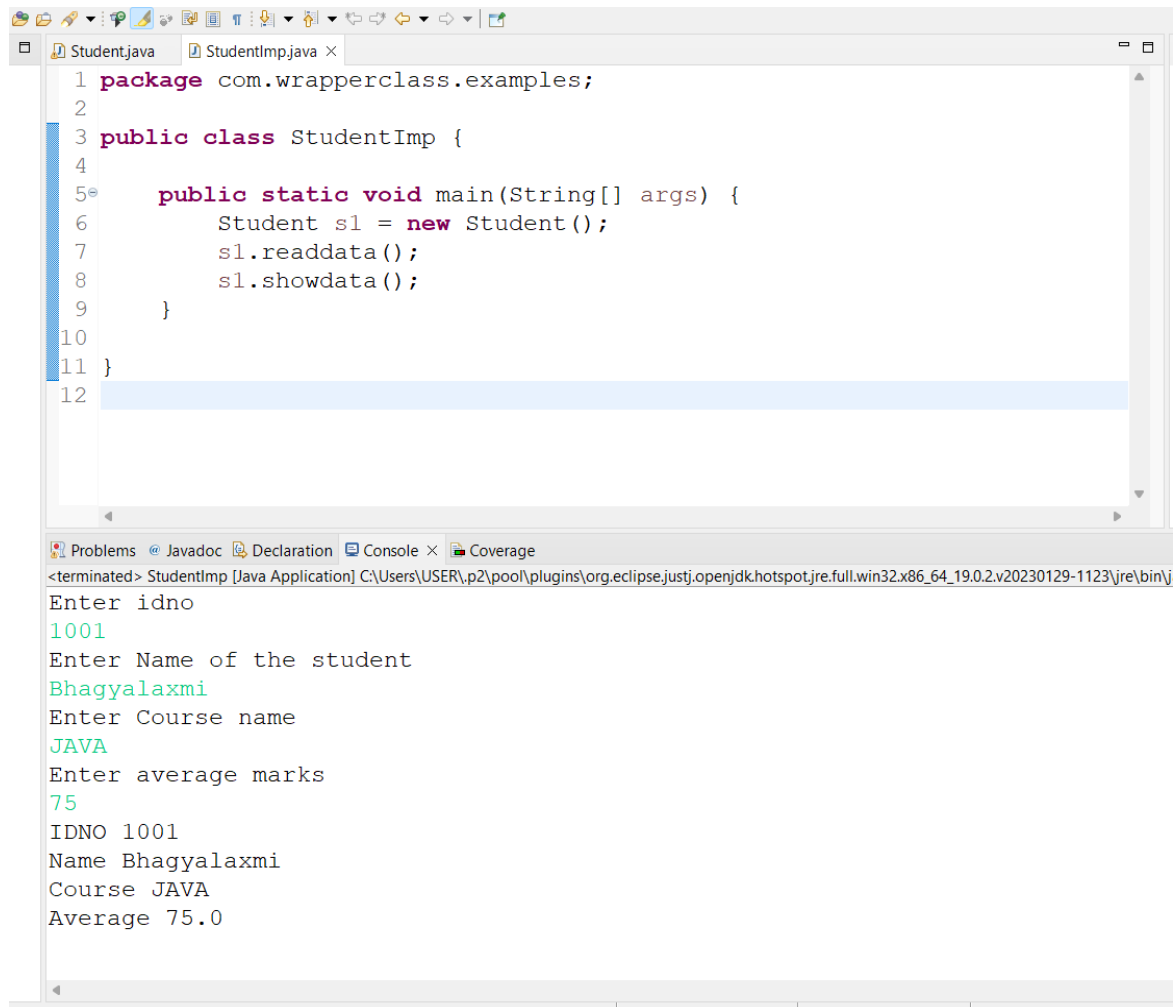
package com.wrapperclass.examples;

public class StudentImp {

    public static void main(String[] args) {
        Student s1 = new Student();
        s1.readdata();
        s1.showdata();
    }
}

```

Output



The screenshot shows the Eclipse IDE with two tabs: 'Student.java' and 'StudentImp.java'. The 'StudentImp.java' tab is active, displaying the following code:

```
1 package com.wrapperclass.examples;
2
3 public class StudentImp {
4
5     public static void main(String[] args) {
6         Student s1 = new Student();
7         s1.readdata();
8         s1.showdata();
9     }
10
11 }
12
```

Below the code editor, the 'Console' tab is selected, showing the program's execution output:

```
<terminated> StudentImp [Java Application] C:\Users\USER\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_19.0.2.v20230129-1123\jre\bin\j
Enter idno
1001
Enter Name of the student
Bhagyalaxmi
Enter Course name
JAVA
Enter average marks
75
IDNO 1001
Name Bhagyalaxmi
Course JAVA
Average 75.0
```

2) Define a student class with following data members Idno, name, course and average Add methods to read and display the student data.

```
package com.wrapperclass.examples;

public class Car {
    private String make,model;
    private short year;
    private int price;
    public Car(String make, String model, short year,
int price)
    {
        this.make = make;
        this.model = model;
        this.year = year;
        this.price = price;
    }
    public void show()
    {
        System.out.println("Car model :" +model);
        System.out.println("Car make :" +make);
        System.out.println("year of manufacturing :"
+year);
        System.out.println("price of car :" +price);
    }
}
```

MAIN METHOD

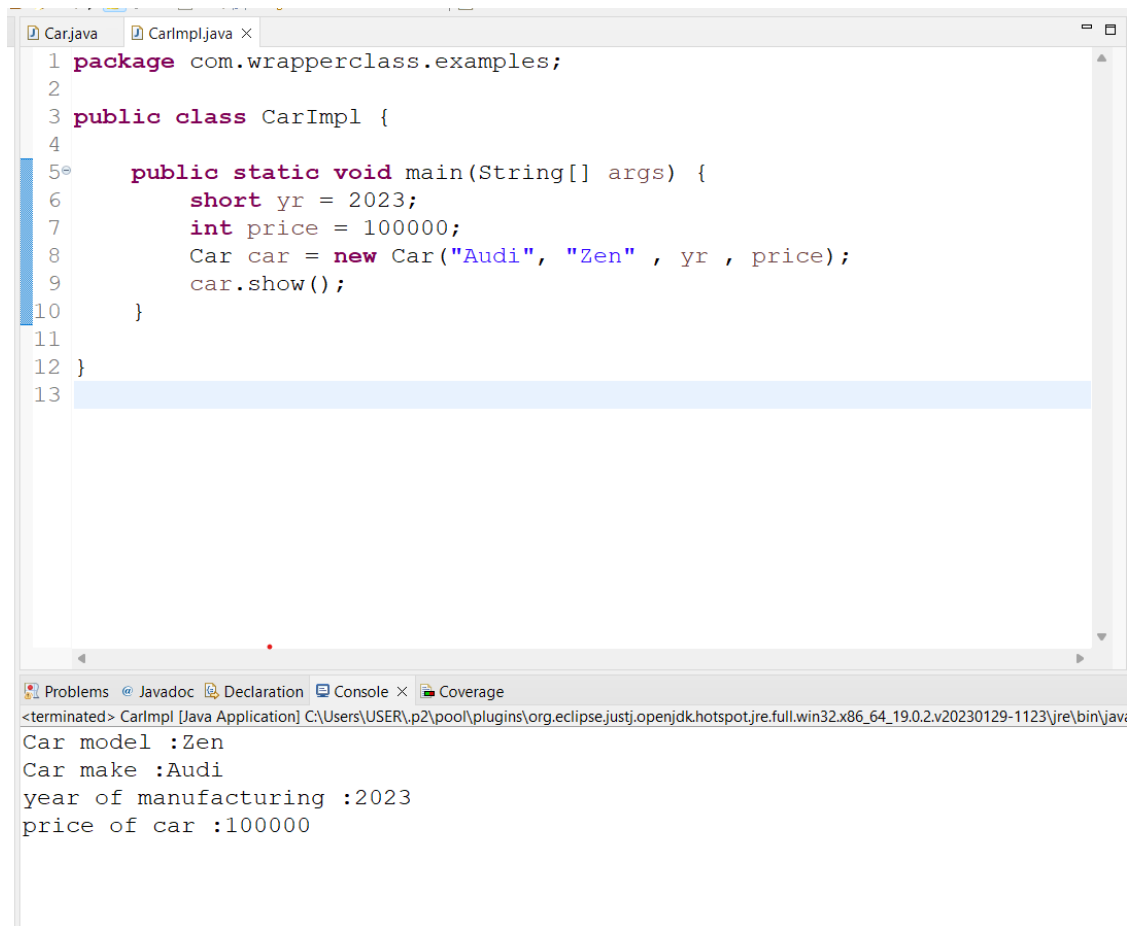
```
package com.wrapperclass.examples;

public class CarImpl {

    public static void main(String[] args) {
        short yr = 2023;
        int price = 100000;
        Car car = new Car("Audi", "Zen" , yr , price);
        car.show();
    }

}
```

OUTPUT



The screenshot shows an IDE window with two tabs: 'Car.java' and 'CarImpl.java'. The 'CarImpl.java' tab is active, displaying the following code:

```
1 package com.wrapperclass.examples;
2
3 public class CarImpl {
4
5     public static void main(String[] args) {
6         short yr = 2023;
7         int price = 100000;
8         Car car = new Car("Audi", "Zen" , yr , price);
9         car.show();
10    }
11
12 }
13
```

Below the code editor, the 'Console' tab is active, showing the output of the program:

```
<terminated> CarImpl [Java Application] C:\Users\USER\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_19.0.2.v20230129-1123\jre\bin\jav
Car model :Zen
Car make :Audi
year of manufacturing :2023
price of car :100000
```