



NEW YORK CITY COLLEGE OF TECHNOLOGY THE CITY UNIVERSITY OF NEW YORK
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LAB REPORT

CET 3640 – OL30

**(SOFTWARE FOR COMPUTER
CONTROL)**

LAB#3

JAVA PROGRAM WITH TestScores

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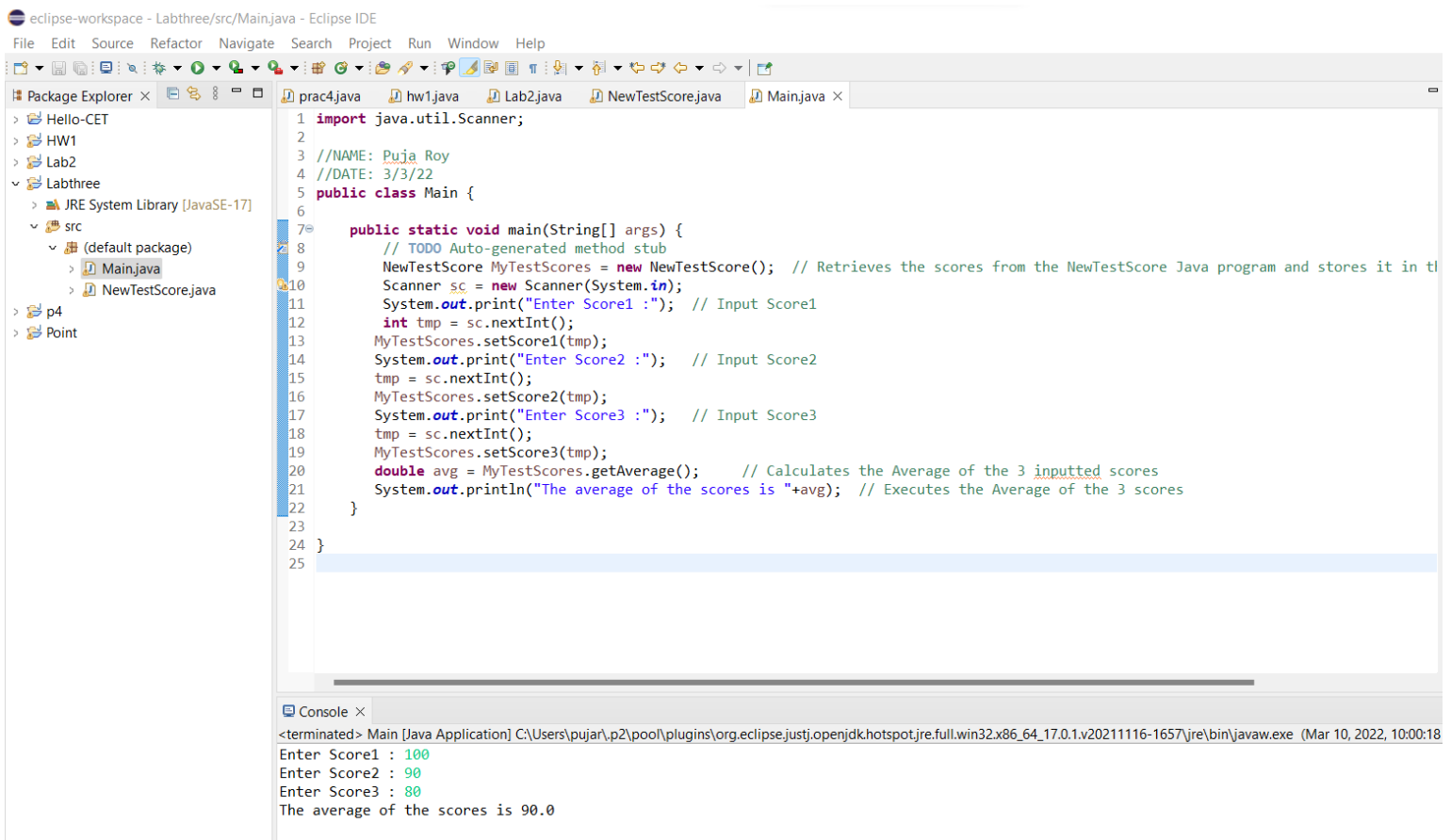
Date: 3/3/22

Due Date: 3/11/22

DESCRIPTION OF THE LAB:

In this lab, I wrote a java program in Eclipse using Java Constructors and methods. A constructor in Java is a method to assign objects to certain variables. I opened Eclipse, clicked on File, clicked new, clicked Java project. I named the project Labthree. Then, I opened the source code (src), then clicked new, clicked class, and named the class NewTestScore. I did not enter a name for the package since it was set to a default package. I also avoided clicking public static void main. After that, I clicked the source code folder, clicked new and then clicked class. I named the class Main. For this step, I clicked public static void main and left the package name black and instead kept it to default. The main file helps to run the code which is nested inside the curly braces. In this program, there are 2 files, the main.java file and the NewTestScore.java file. These 2 files are necessary for the program to execute successfully.

In the main.java file, I wrote a program that retrieves the score from the NewTestScore.java program and stores it in the function MyTestScores. Then, I wrote a program that inputs 3 scores, calculates the average of the 3 inputted scores and lastly executes the average of the 3 scores. After that, I wrote code in the NewTestScore.java file by constructing an object to make it accessible to the test scores inside the class. The remaining code stores and retrieves the 3 scores. Overall, the project calculates the average of the 3 scores and executes the result of the scores inputted. To add on, this program allows to input 3 scores and averages the scores and displays the average.



The screenshot displays the Eclipse IDE interface. The Package Explorer on the left shows a project named 'Labthree' with a source folder 'src' containing 'Main.java' and 'NewTestScore.java'. The main editor window shows the code for 'Main.java'.

```
1 import java.util.Scanner;
2
3 //NAME: Puja Roy
4 //DATE: 3/3/22
5 public class Main {
6
7     public static void main(String[] args) {
8         // TODO Auto-generated method stub
9         NewTestScore MyTestScores = new NewTestScore(); // Retrieves the scores from the NewTestScore Java program and stores it in t
10        Scanner sc = new Scanner(System.in);
11        System.out.print("Enter Score1 :"); // Input Score1
12        int tmp = sc.nextInt();
13        MyTestScores.setScore1(tmp);
14        System.out.print("Enter Score2 :"); // Input Score2
15        tmp = sc.nextInt();
16        MyTestScores.setScore2(tmp);
17        System.out.print("Enter Score3 :"); // Input Score3
18        tmp = sc.nextInt();
19        MyTestScores.setScore3(tmp);
20        double avg = MyTestScores.getAverage(); // Calculates the Average of the 3 inputted scores
21        System.out.println("The average of the scores is "+avg); // Executes the Average of the 3 scores
22    }
23 }
24 }
25
```

The Console window at the bottom shows the execution output:

```
<terminated> Main [Java Application] C:\Users\pujar\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116-1657\jre\bin\javaw.exe (Mar 10, 2022, 10:00:18)
Enter Score1 : 100
Enter Score2 : 90
Enter Score3 : 80
The average of the scores is 90.0
```

