

LAB REPORT

CET 3640 - OL30

(SOFTWARE FOR COMPUTER CONTROL)

LAB#3

JAVA PROGRAM WITH TestScores

Name: Puja Roy

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 is 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.

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eclipse-workspace - Labthree/src/Main.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
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🖺 Package Explorer 🗴 🖹 💲 🖺 🗖 🔑 prac4.java 🔑 hw1.java 🔑 Lab2.java 🔑 NewTestScore.java 🔑 Main.java 🗴
> 📂 Hello-CET
                                   1 import java.util.Scanner;
> 😂 HW1
                                   3 //NAME: Puja Rov
> 🞏 Lab2
                                   4 //DATE: 3/3/22
∨ $\infty$ Labthree
                                   5 public class Main {
  > A JRE System Library [JavaSE-17]

✓ Æ src

                                          public static void main(String[] args) {
    // TODO Auto-generated method stub
                                              NewTestScore MyTestScores = new NewTestScore(); // Retrieves the scores from the NewTestScore Java program and stores it in tl
       > 🕖 Main.java
                                              Scanner sc = new Scanner(System.in);
       > 🔑 NewTestScore.java
                                              System.out.print("Enter Score1:"); // Input Score1
> 🞏 p4
                                              int tmp = sc.nextInt();
> 📂 Point
                                             MyTestScores.setScore1(tmp);
                                             System.out.print("Enter Score2 :"); // Input Score2
                                             tmp = sc.nextInt();
                                  16
                                             MyTestScores.setScore2(tmp);
                                  17
18
                                             System.out.print("Enter Score3 :"); // Input Score3
                                             tmp = sc.nextInt():
                                             MyTestScores.setScore3(tmp);
                                             double avg = MyTestScores.getAverage();
                                                                                         // Calculates the Average of the 3 inputted scores
                                             System.out.println("The average of the scores is "+avg); // Executes the Average of the 3 scores
                                  24 }
                                  ■ Console ×
                                 <terminated> Main [Java Application] C\Users\pujar\p2\pool\plugins\org.eclipse.justj.openjdkhotspot.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
```

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eclipse-workspace - Labthree/src/NewTestScore,java - Eclipse IDE
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                                    2
3 //NAME: Puja Roy
4 //DATE: 3/3/22
5 public class NewTestScore {
6 private int score1, score2, score3; // Constructed an object to make them accessible to the test scores inside the class void setScore1(int m) { // Stores the score1
8 score1 = m;
9 }
  1 import java.util.Scanner;
                                                                                                                                                                                            ▲ ■ ∨ Θ NewTestScore
> 😂 HW1
                                                                                                                                                                                                     score1: int
⇒ 👺 Lab2
                                                                                                                                                                                                       score2 : int
v 👺 Labthree
                                                                                                                                                                                                      score3 : int
  → M JRE System Library [JavaSE-17]
                                                                                                                                                                                                      setScore1(int) : void
                                                                                                                                                                                                      ▲ getScore1():int

√ 
∰ (default package)

                                                                                                                                                                                                      setScore2(int) : void
       > 🗾 Main.java
                                               }
int getScore1() {
                                                                                                                                                                                                      ▲ getScore2():int
                                  10e
11
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19e
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22e
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25e
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}
                                                                               // Retrieves the score for Score1
        > 🔊 NewTestScore.java
                                                                                                                                                                                                      ▲ setScore3(int) : void
                                                     return score1;
                                                                                                                                                                                                      ▲ getScore3(): int
 > 📂 Point
                                                 ▲ getAverage() : double
                                                int getScore2() {
    return score2;
                                                                             // Retrieves the score for Score2
                                                 void setScore3(int m) { // Stores the score for Score3
                                                 int getScore3() {
    return score3;
                                                                            // Retrieves the score for Score3
                                                 double getAverage() {
    return (score1+score2+score3)/3.0; // Calculates average for the 3 scores stored in the program
                                                                                                                                                                                              ■ Console ×
                                   < terminated > Main [Java Application] \ C\ (Users \ pujar \ p2\ pool \ plugins \ org. eclipse justj. openjdk hotspot jre. full.win 32.x86_64_17.0.1.v20211116-1657 \ jre \ bin \ javaw.exe \ (Mar 10, 2022, 10:00:18 PM - 10:00:29 PM)
                                   Enter Score1 : 100
Enter Score2 : 90
Enter Score3 : 80
                                    The average of the scores is 90.0
```