

CMSC203 Assignment 0

Class: CMSC203 CRN 30376

Program: Assignment 0

Instructor: Dr.Grinberg

Summary of Description: (Give a brief description for each Program) A program that requires you to use functions to calculate the volume of a box and the volume of a Sphere.

Due Date: 1/30/2023

Integrity Pledge: I pledge that I have completed the programming assignment independently.

I have not copied the code from a student or any source.

Complete the following five parts of Assignment 0. Name your file as FirstInitialLastName_Assignment0.docx

Part1: Setup GitHub: Provide the screen shots of your GitHub account with Assignment 0 file is uploaded on GitHub:

The screenshot shows a GitHub profile for Adam Sayyed. The profile includes a circular avatar with a green and white pixelated design, the name "Adam Sayyed", the username "AdamSayyed", and the bio "Coding)". There is an "Edit profile" button. The navigation bar at the top shows "Overview" as the active tab, with links for "Repositories" (10), "Projects", "Packages", and "Stars" (1). The "Pinned" section displays three repositories: "WeatherApp" (Public, JavaScript), "Portfolio" (Public, CSS, 1 star), and "PasswordSecureExtension" (Public, JavaScript). The "tenserflow" repository is also visible. Below the pinned repositories, it states "6 contributions in the last year". A banner for "We're celebrating 100 million developers!" is present, with a "Play animation" button. A calendar grid shows contributions for Monday, Wednesday, and Friday in June and July. The "Contribution activity" section shows a bar chart for the year 2023.

Part 2 -Install JDK, Test java Application from Command Line

Provide the screen shots from Step 1 and 2 here:

```
Command Prompt
Usage: javac <options> <source files>
where possible options include:
  @<filename>          Read options and filenames from file
  -Akey[=value]        Options to pass to annotation processors
  --add-modules <module>(<module>)*
                        Root modules to resolve in addition to the initial modules, or all modules
                        on the module path if <module> is ALL-MODULE-PATH.
  --boot-class-path <path>, -bootclasspath <path>
                        Override location of bootstrap class files
  --class-path <path>, -classpath <path>, -cp <path>
                        Specify where to find user class files and annotation processors
  -d <directory>       Specify where to place generated class files
  -deprecation
                        Output source locations where deprecated APIs are used
  --enable-preview
                        Enable preview language features. To be used in conjunction with either -source or --release.
  -encoding <encoding> Specify character encoding used by source files
  -endorseddirs <dirs>  Override location of endorsed standards path
  -extdirs <dirs>       Override location of installed extensions
  -g
                        Generate all debugging info
  -g:{lines,vars,source}
                        Generate only some debugging info
  -g:none
                        Generate no debugging info
  -h <directory>
                        Specify where to place generated native header files
  --help, -help, -?
                        Print this help message
  --help-extra, -X
                        Print help on extra options
  -implicit:{none,class}
                        Specify whether or not to generate class files for implicitly referenced files
  -J<flag>
                        Pass <flag> directly to the runtime system
  --limit-modules <module>(<module>)*
```

```
Command Prompt
01/30/2023 07:49 PM <DIR> ..
07/21/2022 08:37 PM 0 .Rhistory
07/12/2022 08:13 PM 110,226 AdamSayyedOLEResume.pdf
11/22/2022 08:12 PM 436 ASayyed Hw6_part1.zip
11/23/2022 01:06 PM 608 ASayyed Hw6_part2.zip
11/14/2022 08:48 PM 1,243 ASayyed_Pr4.zip
05/27/2022 08:03 PM 153 class Node {,js
04/15/2022 03:16 PM <DIR> Custom Office Templates
01/30/2023 07:49 PM 432 helloworldapp.class
01/30/2023 07:47 PM 167 helloworldapp.java
04/25/2022 04:21 PM <DIR> INTERN FDA
01/29/2022 07:37 PM <DIR> NIST
07/13/2022 10:16 AM 109,225 OLEAdamSayyedResume.pdf
09/01/2022 02:20 PM <DIR> shiny
12/25/2021 11:18 PM <DIR> Social
12/15/2021 05:36 PM <DIR> Sound recordings
08/18/2022 02:40 PM 54,190 TCE_models.R
11/04/2022 05:14 PM <DIR> Visual Studio 2022
01/22/2022 09:01 AM <DIR> Zoom
10 File(s) 276,680 bytes
10 Dir(s) 34,080,710,656 bytes free

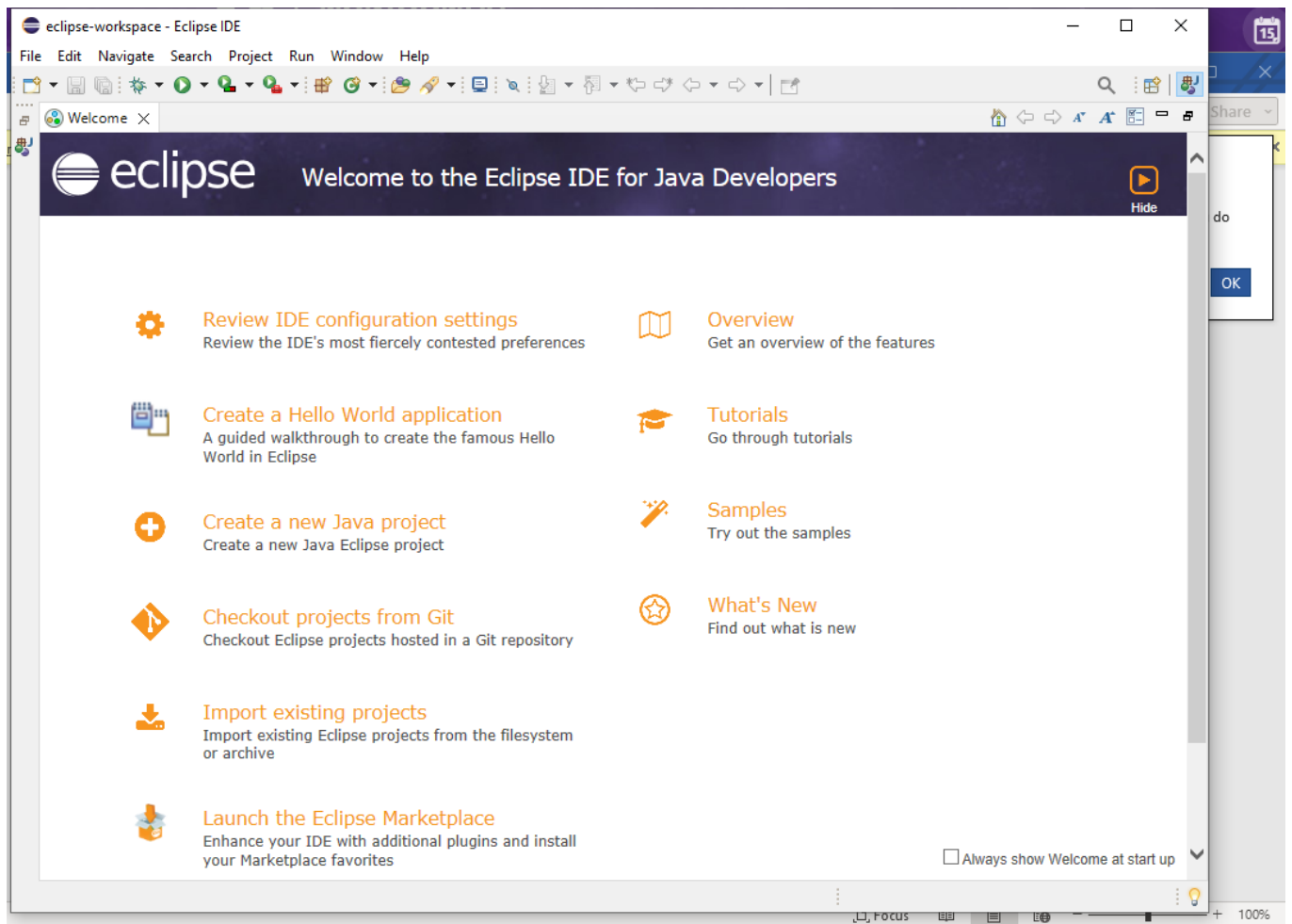
C:\Users\adama\Documents> java helloworldapp.class
Error: Could not find or load main class helloworldapp.class
Caused by: java.lang.ClassNotFoundException: helloworldapp.class

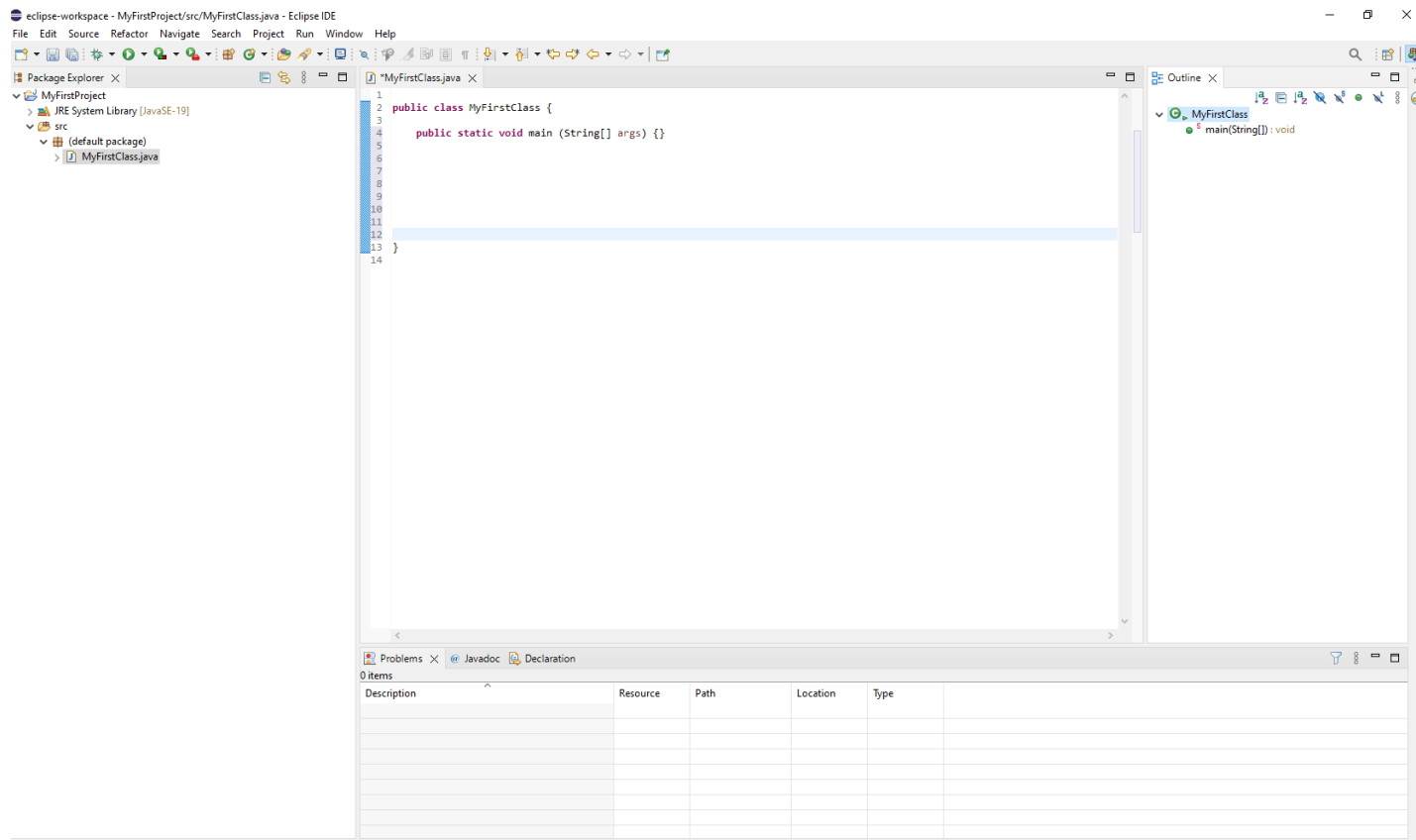
C:\Users\adama\Documents> java helloworldapp.java
Hello World!

C:\Users\adama\Documents>
```

Part 3 - Install Eclipse, Test Eclipse Java Application

Provide the screen shots from Step 1 and 2 here:





Part 4 - Install, Setup, Test Junit Program.

Provide the screen shots showing:

- Eclipse with working JUnit Test example
- Project screenshot
- Running example screenshot

eclipse-workspace - JUnitTestProject/src/MessageUtilTest.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help



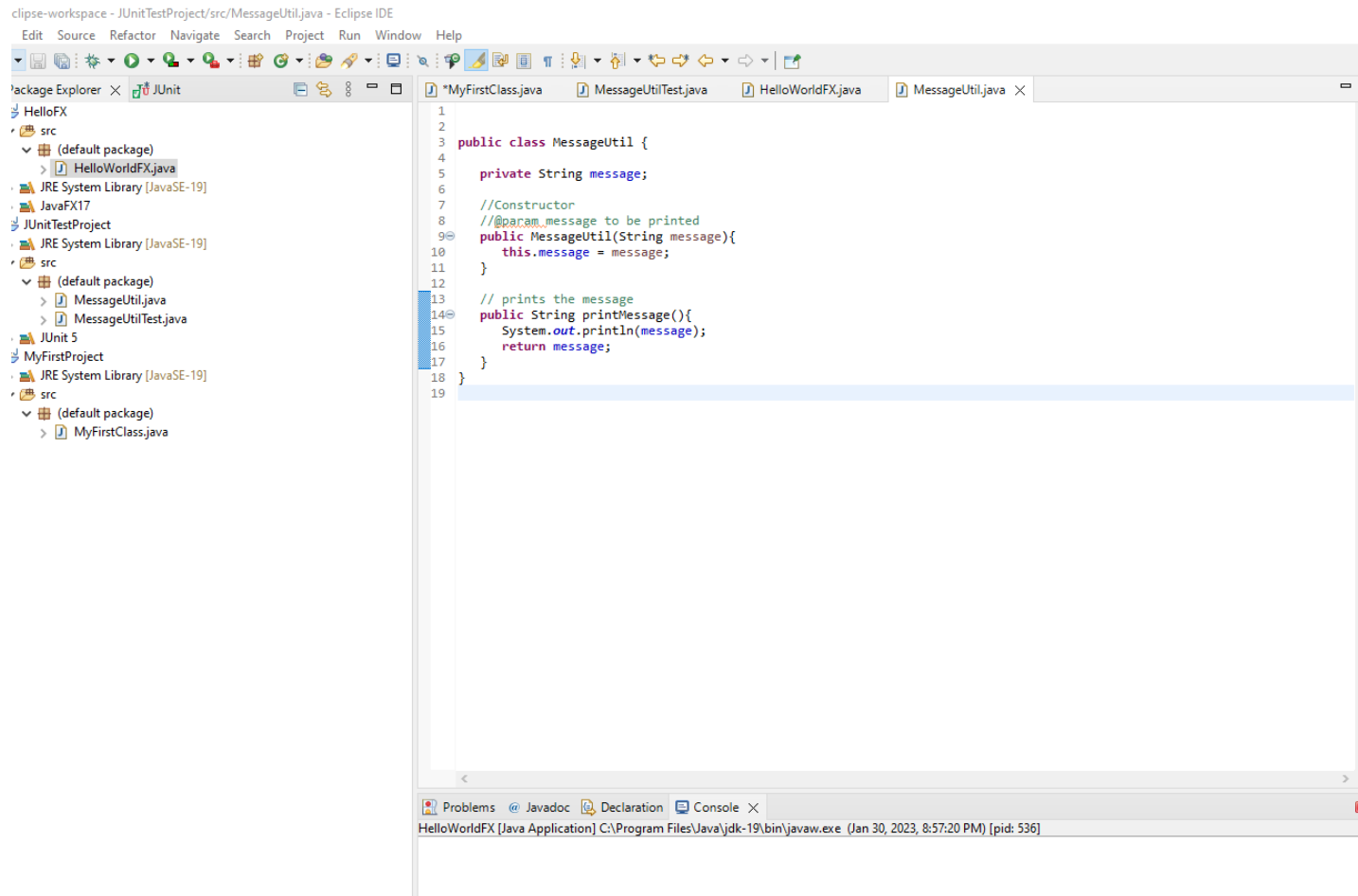
Package Explorer × JUnit

JUnitTestProject
 JRE System Library [JavaSE-19]
 src
 (default package)
 MessageUtil.java
 MessageUtilTest.java
 JUnit 5
 MyFirstProject
 JRE System Library [JavaSE-19]
 src
 (default package)
 MyFirstClass.java

```
1 import static org.junit.jupiter.api.Assertions.*;  
2  
3 import org.junit.Test;  
4 import static org.junit.Assert.assertEquals;  
5  
6 public class MessageUtilTest {  
7  
8     String message = "Hello World";  
9     MessageUtil messageUtil = new MessageUtil(message);  
10  
11     @Test  
12     public void testPrintMessage() {  
13         assertEquals(message, messageUtil.printMessage());  
14     }  
15 }  
16  
17
```

Problems @ Javadoc Declaration Console ×

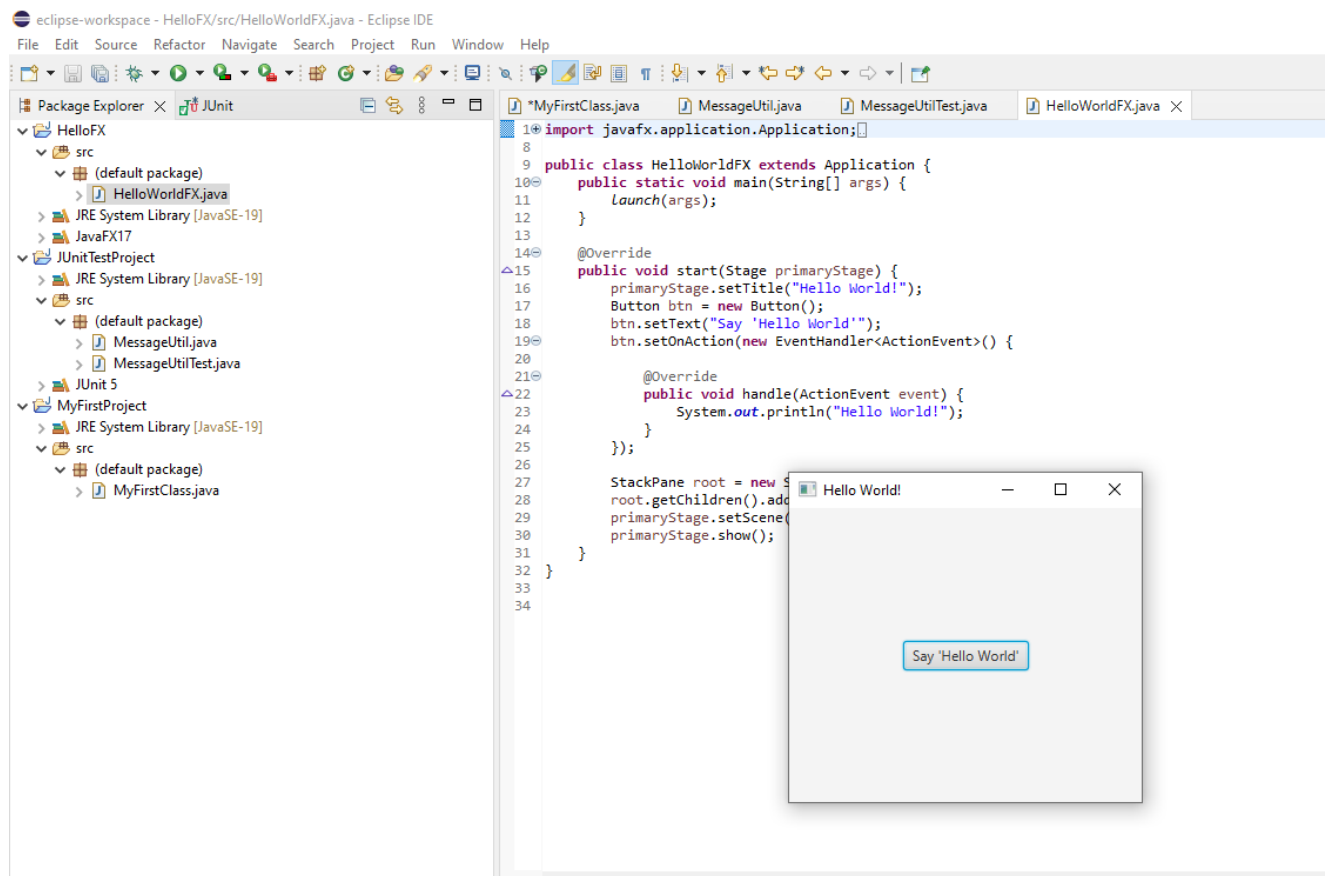
<terminated> MessageUtilTest [JUnit] C:\Program Files\Java\jdk-19\bin\javaw.exe (Jan 30, 2023, 8:32:04 PM – 8:32:06 PM)
Hello World



Part 5 - Install, Setup, and Test JavaFX Application.

Provide the screen shots showing:

- JavaFX Project screenshot
- Running example screenshot
- Java Source Code File



Lessons Learned <Provide answers to the questions listed below>:

Write about your Learning Experience, highlighting your lessons learned and learning experience from working on this assignment.

What have you learned?

Install libraries and setting up JavaFX projects

What did you struggle with?

Assigning the correct directories for the Java SDK and libraries

What parts of this assignment were you successful with, and what parts (if any) were you not successful with?

Settin up the projects, classes, librarfies and configurations

Provide any additional resources/links/videos you used to while working on this assignment.

Check List: <Provide answers to the column Y/N or N/A >:

#		Y/N	Comments
1	Assignment files:		
	• FirstInitialLastName_Assignment0.docx/pdf	Yes or No	
	• Source java files	Yes or No	
2	Program compiles	Yes or No	
3	Program runs with desired outputs related to a Test Plan	Yes or No	
4	Documentation file: Screenshots of		
	• Part1: Setup GitHub	Yes or No	
	• Part 2 -Install JDK, Test java Application from Command Line	Yes or No	
	• Part 3 - Install Eclipse, Test Eclipse Java Application	Yes or No or N/A	
	• Part 4 - Install, Setup, Test Junit Program	Yes or No or N/A	
	• Part 5 - Install, Setup, and Test JavaFX Application.	Yes or No or N/A	
	• Lessons Learned	Yes or No	
	• Checklist is completed and included in the Documentation	Yes or No	