Assignment 1: Compiling and Running Java Program

March 4, 2019

In this assignment, you need to record your computer screen to demonstrate how you compile and run a Java program both in the command line console and in Eclipse. You need also record your voice along the way explaining what you are doing at each step.

Sample

Here is a sample recording to show you what your recording should look like:

- `https://screencast-o-matic.com/u/6RU1/a1demo`

Prerequisites

Before you work on this assignment, you should have installed JDK and Eclipse and completed necessary configurations on your computer. Refer to these videos if needed:

- Installing and configuring JDK on Windows 10
  `https://www.youtube.com/watch?v=LlLRjFptXAY`

- Installing Eclipse and creating Java project on Windows 10
  `https://www.youtube.com/watch?v=CHb6HBo2h7U`

You also need to use a screen recording tool to complete this assignment. You are recommended to use `https://screencast-o-matic.com/`. The following video shows how to use it:

- `https://www.youtube.com/watch?v=s1jIPo1bWCo`

Note that the free version limits the recording to be at most 15 minutes, so make sure that your recording won't last that long. You'd better create an account on `https://screencast-o-matic.com/` before starting the recording as you would need to upload your local recording to the website.

Steps to record

At the beginning of your recording, you should say the following to indicate that you are the person who is creating the recording:

> *Hello class, this is [Your Name Here]. In this video, I'll show you how to compile and run a Java program both in Eclipse and in the command line console. ...*

Then you can choose your own language to describe what you do for the rest of the recording.

In your recording, you should complete the following steps:

1. Launch Eclipse.

2. Create a Java project called `a1`, meaning Assignment 1.

3. In project `a1`, create a Java class named `MyFirstProgram` with the code shown below:

```
1  public class MyFirstProgram {
2    public static void main(String[] args) {
```

```
3       System.out.println("Hello world!");
4    }
5  }
```

You may not need to type all the code as Eclipse may generate the skeleton for you.

4. Run the program in Eclipse. You should able to see "`Hello world!`" in the console window inside Eclipse.

5. Now launch the command line console and change the current directory to where your Java source code file, `MyFirstProgram.java`, is located. You may need to use the `cd` command multiple times to navigate to where you need.

6. Type `dir` in the command line console to display the content of the current directory, which should show the existence of the `MyFirstProgram.java` file.

7. Type `javac MyFirstProgram.java` then to compile the source code, which should yield no error messages if everything works normally.

8. Type `dir` again to show that the compiled Java program, `MyFirstProgram.class`, is now generated in the current directory.

9. Type `java MyFirstProgram` to run the Java program. The message "`Hello world!`" should be displayed in the command line console.

Submission and due time

After you finish recording, choose to upload your video to `http://www.screencast-o-matic.com/` and paste the link of your video in your submission to course shell.

This assignment is **due before class on Monday, March 11, 2019**.