**CIS351**

# Homework 1

## Download Materials

Download the following files from Blackboard HW1 Folder.

- Sample1.java
- Sample2.java

## Academic Integrity

- Remember the Academic Integrity Policies, of this course.

## The Assignment

> This assignment
> - sets you up with JGrasp,
> - walks you through submitting homework via Blackboard, and
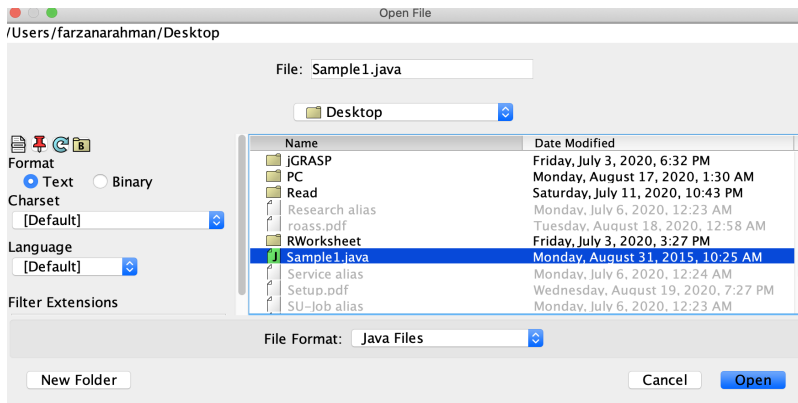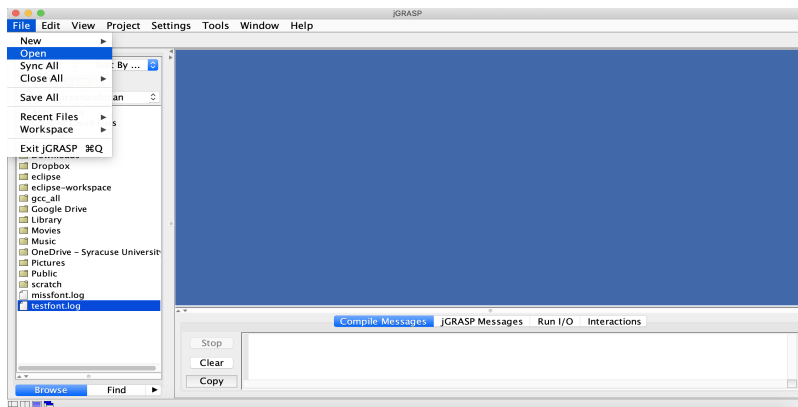> - earns you the easiest points of the course.

**If you have already setup JDK and JGrasp from Lab1, then you can SKIP Part0 and directly JUMP to Part1 of the HW.**

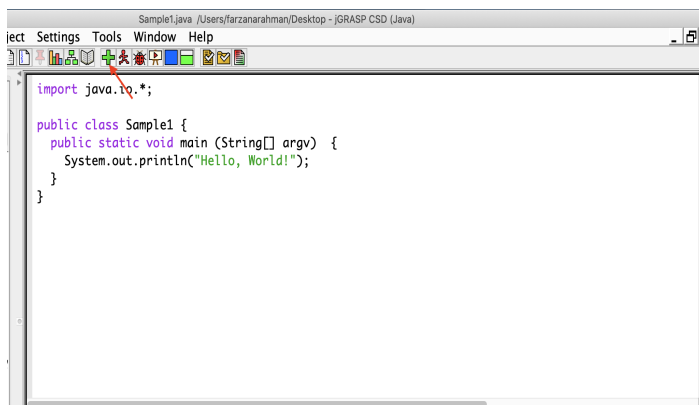## Part 0: Installing the Java Development Kit (JDK) and Grasp on Your Computer

1. A walk-through for installing the JDK

2. A walk-through for installing JGrasp itself.

## Part 1: Loading, Compiling, and Running a Java Program (in gory detail)

1. Make a folder (aka directory) for this homework; call it something intuitive like `hw01` .

2. Now download the file `Sample1.java` and save it in your just created folder.

3. Start up JGrasp.

4. In the JGrasp window, click on the `File -> Open` button and find and select `Sample1.java` , the file that you just saved.
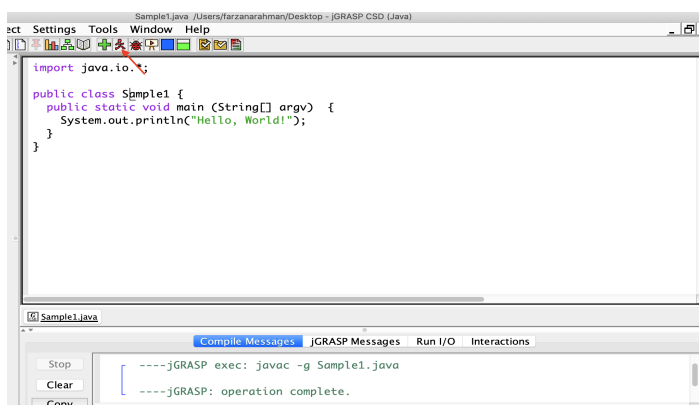
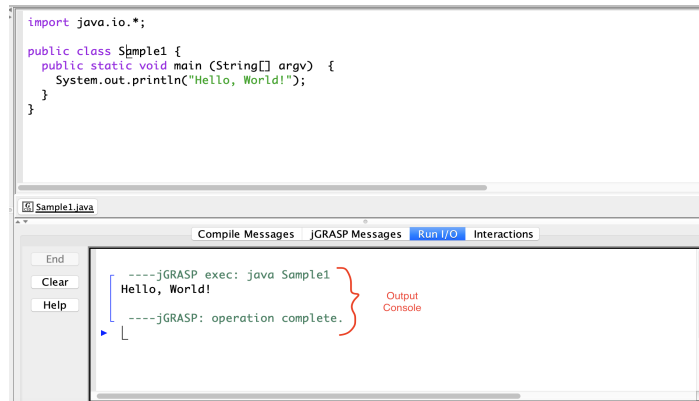5. To compile the program, click on the `compile` button.



If you look in your `hw01` folder, you will see that file named `Sample1.class` has been created.

6. To run the compiled program, click on the `run/execute` button.

whereupon you will see something like

```java
import java.io.*;

public class Sample1 {
  public static void main (String[] argv)  {
    System.out.println("Hello, World!");
  }
}
```

Sample1.java

| Compile Messages    jGRASP Messages    Run I/O    Interactions |

```
End
Clear
Help
        ----jGRASP exec: java Sample1
       Hello, World!                         Output
                                             Console
        ----jGRASP: operation complete.
   ►  └
```

## Part 2: Editing and Debugging

1. Go through the same drill as before, except now for the file `Sample2.java` .

2. When you try to compile `Sample2.java` , JGrasp will report an error along the lines of:

```
Sample2.java:5: error: ';' expected
  System.out.println("Hello, World again!")
                                           ^
1 error
 ----jGRASP wedge: exit code for process is 1.
 ----jGRASP: operation complete.
```

That is, the line with `System.out.println("Hello, World again!")` is missing an semicolon at the end.

3. Now within JGrasp, go to line **System.out.println("Hello, World again!")** and add the missing semicolon.

4. Now compile and run the program.

5. Once the program is working, save it (with the `save` button).

## Submission Instruction

First zip the following and then submit the zipped folder in Blackboard

- Your patched Sample2.java
- filled out Reflection Form (https://farahman.github.io/reflection-form.pdf)
- filled out cover sheet (https://farahman.github.io/CoverSheet.pdf)

## Grading Criteria

**Total points: 100 points**

- Submitted everything correctly: 50 pt
- Patched the Sample2.java correctly: 50 pt

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