

My First Java Program Using JGRASP IDE

The purpose of this handout is to show you how create, compile, and run simple Java program using JGRASP.

- 1) Open JGRASP on your computer.
- 2) Click File → New → Java and a new window will open.
- 3) In that window, type the following text as is (the font coloring is done by JGRASP):

```
// my first java program using JGRASP IDE
public class MyFirstProgram
{
    public static void main (String[] args)
    {
        System.out.println ("This is my first Java program!");
        System.out.println ("This program does not do much!");
    }
}
```

- 4) Click File → Save As to save the file to the hard drive (select a folder you can remember). Name your file MyFirstProgram. Notice the file name and the program name (in the first line: Public class MyFirstProgram) **must be the same**. **This is Java requirement.**
- 5) Now, let's indent the code properly. Click on the Generate CSD icon (the icon next to the undo red arrow pointing backward). Click the Save icon.
- 6) Try to click the 2 other formatting icons next to the Generate CSD icon and see what happens.
- 7) Now we need to compile the code. Click on the Compile icon (the green cross - + sign). Notice what the compiler displays in the lower window (Compile Messages tab). If you have syntax errors, error messages are displayed in that window.
- 8) Once you fix all syntax errors, you are ready to execute the program to see its results. Click the run icon (the red running person). Notice what the run-time machine displays in the lower window (Run I/O tab).
- 9) Now, try to intentionally generate syntax errors by making changes to the code, such removing a semi-colon, changing void to Void, changing System to system, changing println to Println, etc. Each time you make a change you need to re-compile the code.

Work this step one error at a time and carefully read and think about the error message for each change.

Notice that JGRASP saves your file each time you try to compile the code.

Get Organized

For each Homework Assignment, create a separate folder for that assignment with proper name to save all programs for that assignment in the respective folder. DO not save all assignments in the same folder, it get difficult to manage as we write more programs.