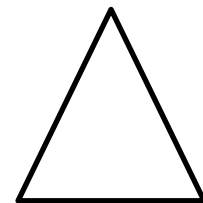


Lab 2 –Debugging

Part 1 Tasks

1. Create a working directory named **Lab 2**, this will be a folder on your computer.
2. You must use Notepad++/Sublime and the command line prompt/terminal for this lab. When using the command line prompt, make sure that you navigate to the **Lab 2** directory so that you can run the java files.
 - Windows Users:
 - i. Use the dos command, **cd**, to change folders, and navigate to the directory that contains your source code file. (You can find a handy listing of some basic dos commands at this site, <http://www.cs.unca.edu/~jkdawg/help/msdos.html>.)
 - Mac Users:
 - i. Use the bash command, **cd**, to change folders, and navigate to the directory that contains your source code file. You can find a handy introduction to some basic bash commands at this site: <https://www.makeuseof.com/tag/mac-terminal-commands-cheat-sheet/>
3. Navigate to the **Lab 2** directory; create an empty file called **Triangle.java**. This is the Java source code file for your first program, so capitalization is important – the first letter must be capitalized and all the rest should be lower case.
4. Open the **Triangle.java** file in Notepad++/Sublime, write a program that displays a triangle with a base of ten or eleven characters. You will use Java println() statements to achieve this. Here is a line of code for the base of the triangle:

```
public class Triangle{  
    public static void main(String[] args){  
        System.out.println("_____");  
    }  
}
```



Note: Your triangle can be made with any characters. If you use the “\” character, you will need to use “\\” instead since the “\” is a special character in Java. Also note that your triangle will have spaces in it, where mine is just a drawing

5. Compile the source code file using the command prompt, use the command **javac** followed by a space and then the name of your source code file including the extension (**javac Triangle.java**). If there are no errors, view the contents of the **Lab 2** directory to see the additional file named **Triangle.class**. If error messages are displayed, reopen the **Triangle.java** file to discover how your file differs from the text shown above. Correct any errors and recompile.

6. To run the program, via command prompt, use the command **java** followed by a space and the name of your program without the extension (`java Names`). The program should display your names in the terminal.
7. Take a screenshot of the running of the code at the command line.
8. Upload and submit this screenshot along with the actual `Triangle.java` file you created to the submission area in Canvas

Part 2 Tasks

1. In Canvas, navigate to the **Lab2Files** folder and download to your **Lab 2** directory the files linked inside **Lab2Files**. You will see ten java files sequentially named `Test1` through `Test10`. Make sure that you save them with their respective filenames.java (`Test1.java`).
2. Compile and execute each of these files. Many of the files have errors that you will need to correct before running the program. **As you are debugging, you may not rename any of the file names.** You are to document any errors that you find on the table provided in this lab; correct the error; and execute the program.
3. Complete the Lab 02 Quiz on the errors you find. You will have unlimited attempts on this quiz.