Tae Kim(tk2686)

HW₁

Problem 0

- · What is the difference between an interpreter and a compiler?
 - Interpreter reads a single line of code at one time while compiler reads the whole file. For example, Java is a compiler whereas Python is an interpreter.
- Explain the compilation process.
 - Compiler reads the source code (high-level languages such as C, C++, and Java)
 and translates it into a machine language —only if the source code does not
 contain any error.
- What is the Java Virtual Machine?
 - Java Virtual Machine enables the computers, such as PC or laptop, to read and execute Java files.

Problem 1

- 1. Add /* in the first line and */ in the second line.
- 2. clss -> class
- 3. HelloWorld -> **Hello** (The file name has to match the class name)
- 4. Add { in third line
- 5. Add args inside (String[])
- 6. print -> **System.out.println**
- 7. (Hello world!") -> ("Hello world!")
- 8. Add; at the end of the print line

Problem 2

- File Name: hw1_p2.java
- Use System.out.println(); to print each elements in separate lines.

Problem 3

- File Name: hw1_p3.java
- Use scanner to get input from the user.
- · When user suggests two integers.
- Calculate addition, subtraction, etc and display the results.
- For division, arbitrarily convert one integer to double to facilitate division process (result should be in floating number for indivisible numbers).

Problem 4

- File Name: hw1_p4.java
- · Use scanner to get input from the user.
- The user should give his or her weight in pounds and height in inches.
- · Convert them in to kg and meters.
 - Declare final double variable for unit conversion and execute the conversion.
- · Calculate BMI and display it for user.