Project 2 Instructions [10 points]

1. **Due Date & Time: 09/23/2022 at 11:59 (PT)**

2. **What to submit:** Submit 1 zip file containing 3 files below by the deadline.

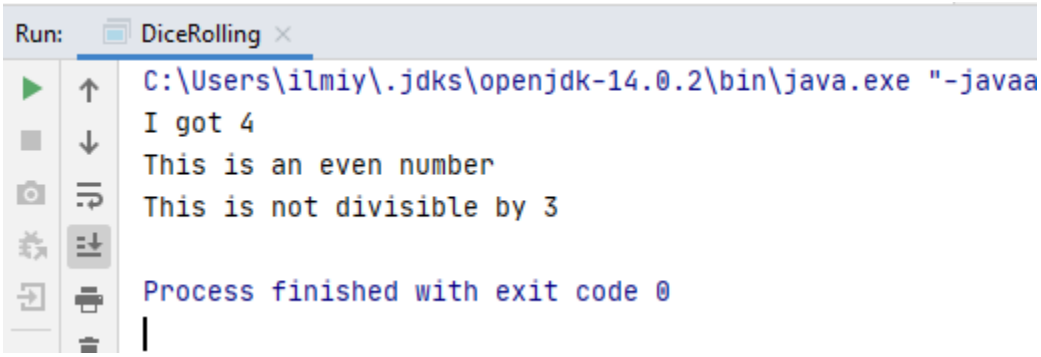
   - 2 JAVA Files: DiceRolling.java [4 points], ThreeNumSort.java [5 points].
   - 1 File: Make a document that shows the screen captures of execution of your programs and learning points in Word or PDF. Please make sure you capture at least 2 executions for each of the programs (total of 4 screen captures) and write one paragraph reflecting on what you learned from this exercise [1 point]

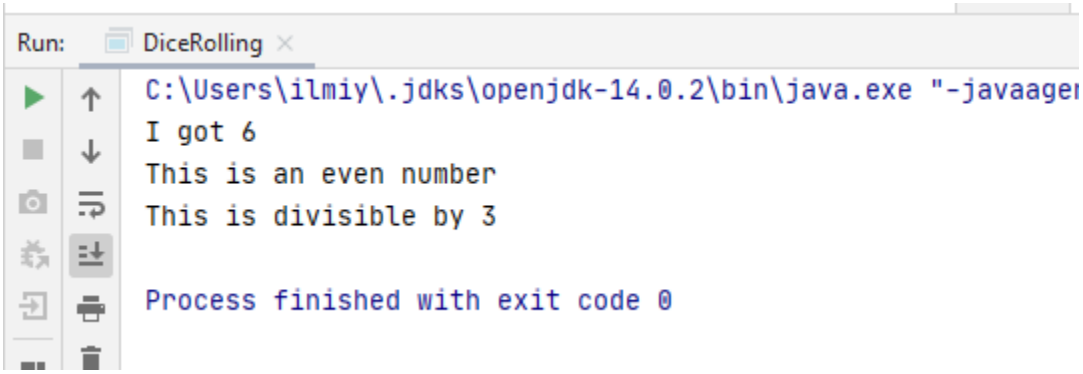
   Please submit all required files together in a zip file, via the Assignments Submission page
   Please make the zip file name according to the naming convention: proj2_<FIRST NAME>_<LAST NAME>.zip

   Always read through the entire assignment before starting and submitting any of it.
   Missing files or missing requirements will result in deducted points.

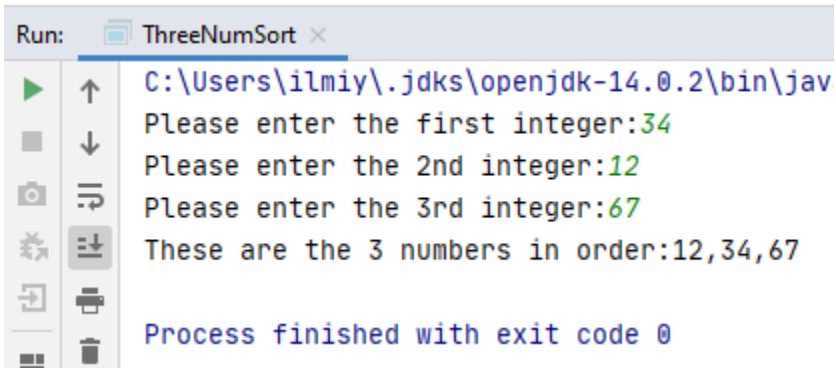
---

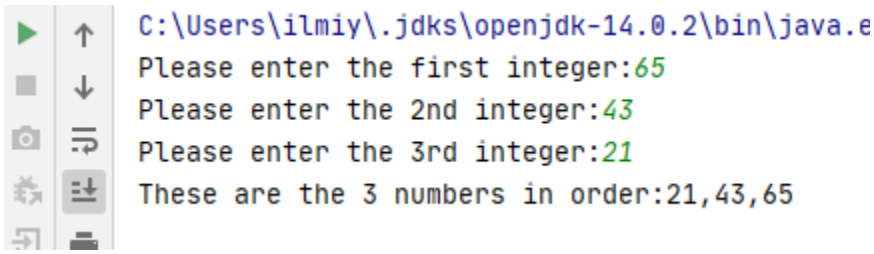
1. **DiceRolling:** Use Math.random() to simulate the rolling of a 6-faced dice (i.e., a random number that is between 1 – 6) and check if the number you got is even or odd or divisible by 3.





2. ThreeNumSort.Java: Write a program that asks a user to enter 3 integers and then prints the 3 numbers in an ascending order. I expect you to use nested if statements to sort the numbers in the correct order. The execution result should look like this:





3. You also need to create a Word or PDF file that contains:

1. 2 screen captures for each of the problems executed above.
2. Reflection (1 point):

   Please write 200 words or more about what you learned, what challenges you faced, and how you solved it. You can also write about what was most frustrating and what was rewarding. When you write about what you learned, please be specific and list all the new terms or ideas that you learned!

Now, create a zip file with the 2 Java files and the Word/PDF file and submit it to the submission page.

Every Java file you write in this assignment will require you to include descriptive comments.

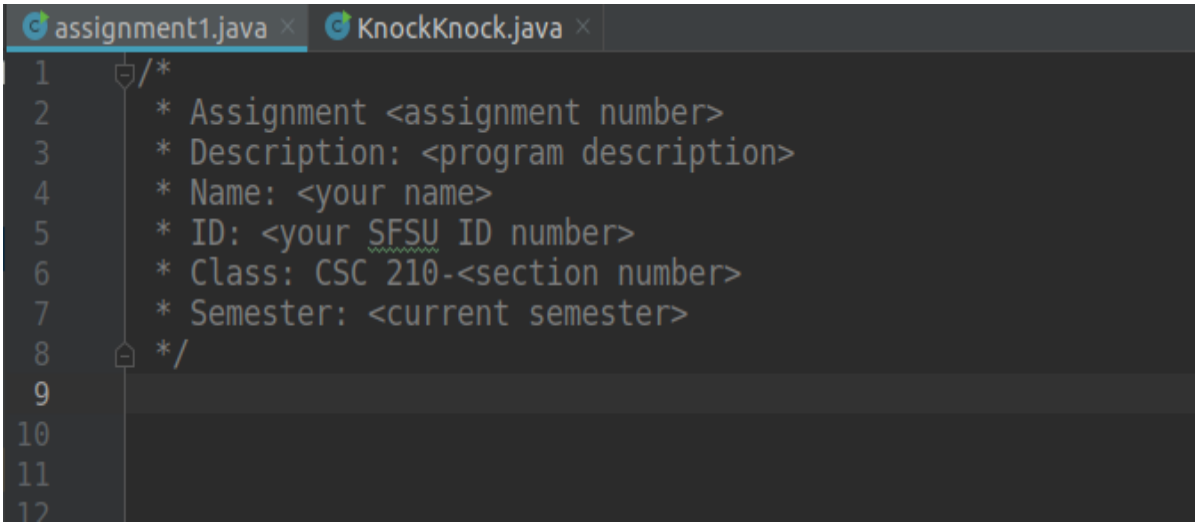
In this assignment, you are tasked with writing descriptive headers and comments.

You can write comments in two ways:

- Single-line comments using the // notation.
- Multi-line comments using the /* and */ notation.

1. **Include a proper header at the top of every Java file.** Replace each tag (such as <assignment number>) with the appropriate text. You should adhere to this format as closely as possible. You do not need to include the <> symbols in your header fields.

Figure 1: Example of the header that your program needs to have.



2. **Place your comments at the top of each statement.** However, you don't need to write comments on print statements (i.e. anything that starts with System.out.print…) statements. An example of commenting codes is included below in Figure 2:

Figure 2: Example of writing single-line comment before each statement.