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| **CS1101 Lab 9 – Print with Loops** |

**Released on: Wednesday October, 4**   
**Due on: Friday October, 20**  
**How:** submit on Piazza in folder lab9  
**What:** a java file as a solution to your problem

**Objective of this lab:** Provide you with practice on loops.

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| In this lab, you are given, in lab9.java, an example of a printing function (java method). You will see that the function that is given to you, called triangle, prints triangles of varying size, depending on the input parameters we pass to it.    You will then have to implement 4 more functionalities (java methods) to print other shapes that can also vary in size depending on the value of their input parameters. Each of the methods you have to design is described in the java file called lab9.java. |

**So here is what you are going to do:**

**1/ Compile and execute lab9.java** to get familiar with the printing functionality provided to you

**2/ Complete each of the printing functionalities** as prompted to do so in lab9.java**.** Make sure you’re your implementation of the functionalities is fully commented to explain what you did.

Since you do not know the size of the shapes to print before to implement your method (these sizes and parameters could change many times), you have to use loops in your code, just like it is shown to you in the functionality given to you.

**3/ Add code to the body of the main method** to allow using the functionalities you just implemented: the additional lines in the body of the main method need to be fully commented to clearly explain what you did.

**What do you have to turn in?** Thelab9.java file that is as follows:

1/ Its header is a comment containing **your name (first and last)**

2/ The **completed body of the 4 functionalities** you have to implement, all **fully commented**.

3/ The **completed body of the main** method (= **your code to test the new printing functionalities)**, which is **commented** so that each instruction is very clear

**Criteria for grading:**

**0/ [10 pts]** Your lab is submitted according to specifications (proper file name, proper format)  
**1/ [15 pts]** Code of each of the 4 functionalities you have to complete  
**2/ [5 pts]** Comments of the code of each of the 4 functionalities you have to complete (relevant and clear)  
**3/ [10 pts]** All file and code is properly indented