

Workshop 1

Description:

The first assignment, simply lets you practice basic control structures (such as *nested for loops*.)

Develop a Java solution (in a simple Java class, which for now, could even be composed of just one main method) that prints the following output (*no hard coding of any types/kinds, except for the number of rows which is 8, and no use of any arrays, please!*)

```

          1
        1 2 1
      1 2 4 2 1
    1 2 4 8 4 2 1
  1 2 4 8 16 8 4 2 1
1 2 4 8 16 32 16 8 4 2 1
1 2 4 8 16 32 64 32 16 8 4 2 1
1 2 4 8 16 32 64 128 64 32 16 8 4 2 1

```

Marking Criteria and Task:

Please note that you should:

- a- have an appropriate indentation.
- b- have proper file structure.
- c- follow Java naming conventions.
- d- document properly.
- e- not have debug/useless code and/or file(s) left in assignment.

in your code!

- Task: Developing and running the desired solution: (you should submit your source code - *just an individual .java file and a screenshot* which demonstrates the way your code runs): 5 marks.

Deliverables and Important Notes:

- You are supposed to submit your solution online on BB *by the end of the day on Tuesday, 24th of May 2022.*)
- Please note that you would be allowed to *submit just once*, so please *be super careful and double-check before you hit submit.*

- There would be a **20% penalty** for each day (or part of it,) in case you submit late!
- Remember that you are encouraged to talk to each other, the instructor, or anyone else about any of the assignments, but **the final solution may not be copied from any sources.**