

**Question 1.** Write a program `Triangle.java` that takes a command-line argument `N` and prints a  $(2N + 1)$ -by- $(2N + 1)$  triangle, like the one below, on the screen.

[illegible]

*Hint:* Use two for loops and one if statement

**Question 2.** Write a program `Sort.java` that creates an integer array that has 15 elements in a random order. It then sorts the array in a descending order. Note that you are not allowed to use built-in Java sorting functions.

*Input:* randomly-ordered elements  $\{1, 10, 5, 9, \dots\}$

*Output:* sorted array  $\{15, 14, 13, 12, \dots, 1\}$

## How to submit your assignment:

- Create a github account and upload you classes on the github.
- Send the link of your github at `syed.gillani@insa-lyon.fr`

**Basics of Github:** There are plenty of online sources to learn the basics of github. The following the basic steps to upload your local files to github.

- Install github using command-line or other tools.

- Open the command-line/terminal and go to the folder containing your java classes, e.g. `cd ./javaclasses/`
- Run command `$ git init`
- Add files to the initialised repository: `git add .`
- Commit to the repository: `git commit -m "first commit"`
- Link the repository to your account on github: `git remote add origin "your remote repository URL from github"`
- Push the local data to the remote repository on github: `git push -u origin master`