**CONTINUOUS AND AGILE SOFTWARE ENGINEERING**

| COURSEWORK DETAILS | | | |
|---|---|---|---|
| **C/W NUMBER** | #1 | **CONTRIBUTION** | 10% of the module final mark |
| **C/W TITLE** | **Quiz 1** | | |
| **DATE, TIME, DURATION** | 24/5/2021, 20:20, 20 minutes | | |

1. Clone https://github.com/oefremidis/CCP6418_Q1.git into a local repository. The repository contains code in particular classes.
   a) Class `Line`: contains two methods. The `linePoint` method returns a y value based on the equation of a line:

      $$y = ax + b,$$

      and the `calculate` method (which is already implemented) returns several y coordinates by taken as parameter the corresponding of x coordinates and coefficients.
   b) Class `LineTest`: Implement all your test cases in that class (as described in 2)
   c) Class `Main`: The code in main runs all tests and there is no need to change anything in that class.

2. In class `Line` Implement the `linePoint` method described previously (1.a – you can also check its comments). [10 marks]

3. In class `LineTest` implement:
   a) Two different test cases for the `linePoint` method using the appropriate assert methods.
   b) Two different test cases for the `calculate` method using the appropriate assert methods.

   [50 marks / 10 every case and 10 for the fixture]

4. Run the class `Main` to test your code and ensure it passes all tests. [10 marks]

5. Stage and commit all updated files to your local repository. [10 marks]

6. Create a repository CCP6418_Q1_Answers in your GitHub account and push your committed code to it. [10 marks]

7. Add *tvarsamidi*s and o*efremidis* as collaborators. At your repository's page do the following: Settings → Manage access → Invite a collaborator → *oefremidis* → Invite collaborator (and then repeat the process) [5 marks]

8. Obtain the repository's URL and email it to tvarsamidis@athtech.gr and oefremidis@athtech.gr with subject "CCP6418_Q1". Attach the Line.java and LineTest.java files. [5 marks]

9. *Do not touch* the new repository after sending the email message.