HackerRank Downloader :

<https://github.com/kasvith/hackerrank-dl>

And the edited code is in the folder

Plagiarism tool :

Here is the download link of the **jar file of JPlag**  - the Plagiarism tool if you interested to try it:

<https://github.com/jplag/jplag/releases/tag/v2.11.9-SNAPSHOT>

(Make sure you opened the arrow beside the word "Assets" to find the jar file)

**I just want to ask you to NOT tell any student the Name of the tool to prevent them from modifying their codes and testing if it is discovered with the tool or not before submission.**

**[ Note ]:**

**The tool is generally NOT so accurate,**

**so any cheating cases found by it should be reviewed by the TA manually to make sure اللهم بلغت اللهم فاشهد :D**

After downloading the jar file . . .

**Here is a sample command to run it:**

java -jar jplag-2.11.9-SNAPSHOT-jar-with-dependencies.jar -l c/c++ -m 30% -s input

The above command specifies that the language to be c/c++ and the similarity threshold is 30% and the input source codes folder called "input".

**[ Steps ]:**

- Add a folder for each student containing all his code files.

- Add all the folders of the students in a folder called: "**input**"

- Run the above command.

- A Folder called "results" will be generated

- Open **index.html** file and it contains links for all cheated cases

Note: a folder of one student may contain multiple files and in sub-directories too. No problem with that. It already compares all files of each student with all files of each student.

**If you want to add a base code folder, use this command:**

java -jar jplag-2.11.9-SNAPSHOT-jar-with-dependencies.jar -l c/c++  **-bc BASECODE** -m 30% -s input

- Make a folder called " **BASECODE** " that contains the common project framework given to students.

- Add this folder in the " **input** " folder beside the folder of each student.

**The github link that explain how to use the jar file:**

<https://github.com/jplag/jplag>

It shows to you how to specify the programming language, ...etc.

**The github links that contain many versions:**

<https://github.com/jplag/jplag/releases>