Parabole

PLEASE FOLLOW THE INSTRUCTIONS BELOW

- The problem statement can be found in ProblemStatement.pdf
- The coding must be done in Python. You can choose from Python 2.7 and Python 3.6.
    - Please clone the following repository for Python 2.7

https://github.com/SauravMukherjeeParabole/ParaboleSelectionsPy2.git

```
git clone https://github.com/SauravMukherjeeParabole/ParaboleSelectionsPy2.git
```

(Use this command in Git bash)

    - Please clone the following repository for Python 3.6

https://github.com/SauravMukherjeeParabole/ParaboleSelectionsPy3.git

```
git clone https://github.com/SauravMukherjeeParabole/ParaboleSelectionsPy3.git
```

(Use this command in Git bash)

- The total duration of this exam is 6 hours. (From 1 P.M. to 7P.M.)
- You can use any external knowledge for the exam. This includes but is **not limited to** Open Source Software, Publicly Available Datasets, Wheel Files etc.
- In **driver.py,** input from file is handled through available function – **read_directory()** and **main(),** you can add your code only to **creating_knowledge_graph()** function.

- In case you want to handle the input manually through your own code you are free to do so. You can change **driver.py** in any format you want, however, the input files **should not be changed**.

❖ The input sent to **finding_aspects()** is
- `contents_of_input_file` **(string)** which is the total information contained in the file based on which you have to create the knowledge graph
- `name_of_file` **(string)** which was the initial file name from which the data is read from.

❖ The output format for each input file is an **unordered list of triples**, where each triple is **directed edge** in the knowledge graph. The first element of the triple is the element from which the **relationship is originating from**, the second element is the **relationship** and the third element is the element where the relationship is **converging on.** This output must be written within a file in the **data/output** folder with the **same name** as the input file.
Please note, unordered list of triples **does not** refer to the order of subject, object and relationship within a triple, but the order of triples written in output file.
Sample examples can be found in the folder **SampleExamples** folder of the repository. Explanation of the **SampleExamples** can be found in the **readme** file within the **SampleExamples** folder.

❖ The **input** and **output** formats should be the same as specified. You should not change the format of the files.

❖ For submission, upload the repository you have worked with to the Google Drive folder shared with you. Please **do not** zip or compress your folder.

❖ Please handle all the **external dependencies** from within the project repository before upload. You do not need to handle dependency of **default** python libraries. Any external libraries or datasets or anything else should be handled by you. We will be testing the runtime results only through **driver.py** . Any Runtime Error during execution will not be debugged or externally handled by us. Any External dependencies you are using should be clearly mentioned in the **Explanation\ExternalDependencies.txt** in the repository.

- The approach to the problem should be clearly mentioned by you in the file **Explanation\Explanation.txt**. This is **extremely important**, and you should manage your time accordingly. Your output will not be considered if you do not explain your proceedings in this file.
- The submissions should be completed by 7 PM. Late submissions would attract penalty. **Be conscious of the repository size and your internet bandwidth while uploading.**
- You should not commit to the repository you pulled from. Please upload the file in the **Google Drive** folder link shared with you.
- The output responses will be put through a qualitative analysis. **There is no single correct answer for the problem statement**.
- Do not write any code with malicious intent in **driver.py** that takes advantage of administrative privileges. Any such submissions will be instantly disqualified.
- Any questions, look into the **FAQ file** or drop a mail at recruitment-desk1@mindparabole.com.