**Task1:**

**PREREQUISITES**

For Task 1, you will be working on Data Extraction and Data Visualization. To successfully complete this task, you should have a fundamental knowledge of Python, data structures, and file read/write functions. I recommend reviewing the code examples provided in the GitHub link before beginning this task.

<https://github.com/qamarabbas408/Python-4-Everybody.git>

if you stuck somewhere, follow the book provided in following link:

<https://drive.google.com/file/d/1ydjcAUHIFbDfF_afjS-U_bxXEbgsCCj4/view?usp=sharing>

**INSTRUCTIONS**

The attached file is of type .csv which is your dataset for this task. If you open this file you will see two columns (use Excel or Notepad); first contains DOI which you don't need to worry and second column contains Keywords. And if you look closely each keyword is separated by a semicolon (which can be used as separator)

* + Job1: Read keywords column and assign it to a python data structure (list)
  + Job2: Separate words using ';' separator
  + Job3: Count Frequency of each word (occurrence of word in entire dataset)
  + Job4: There is a library called WordCloud which takes input as a python dictionary (word: frequency of word). Do some research first.
  + Job5: End Result is in the attached picture.

*NOTE: You are required to complete this task before the next lab, or at the very least, make an attempt to do so.*