Pre-requisites:-

- Python Version 3.8 or 3.x
- Google Chrome Version 79.0.39

```
###The Following Packages mus be present on your local machine###
Package          Version
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atomicwrites     1.3.0
attrs            19.3.0
backcall         0.1.0
colorama         0.4.3
decorator        4.4.1
errorhandler     2.0.1
ipython          7.11.1
ipython-genutils 0.2.0
jedi             0.15.2
more-itertools   8.1.0
packaging        20.1
parso            0.5.2
pickleshare      0.7.5
pip              19.2.3
pluggy           0.13.1
prompt-toolkit   3.0.2
py               1.8.1
Pygments         2.5.2
pyparsing        2.4.6
pytest           5.3.4
pytest-html      2.0.1 (for generation of html report)
pytest-metadata  1.8.0
pytest-ordering  0.6
selenium         3.141.0 (for web scraping)
setuptools       41.2.0
six              1.14.0
traitlets        4.3.3
urllib3          1.25.8
wcwidth          0.1.8
wheel            0.33.6

###
If not present install by using: pip install <package-name>
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```

Instructions:-

1. Clone the git repository in Local.
   Command:
   git clone <repository name>
2. Import the project (to view code) in any of the IDE of your choice (I use eclipse)
3. Script will only run on chrome browser, make sure you have Google chrome installed. (versions are mentioned at the top)
4. To Execute the script (I have used pytest)

- Open Command Prompt
- From Command Prompt go to the repository, tests folder (drive:\..\GoogleSearchUI\tests)
- Type Command:
  pytest -s -v google_search.py --html=(path where you need report to be generated)\htmlreport.html

5. The script will run 3 tests, out of which 2 will pass and one will fail.
6. The report will get generated in folder "drive:\..\GoogleSearchUI\report"
7. Screenshots will get generated in folder "drive:\..\GoogleSearchUI\screenshots"

Here i have automated a couple of test cases from 'Task2_TestCases.xls' sheet
Since this is a pytest framework/solution, Execute this script from its root location
Execution command: pytest -s -v google_search.py --html=<location of your directory>\..\GoogleSearchUI\report\htmlreport.html

Test Result:
TC1 = Fail (Deliberately failed to log result in report)
TC2 = Pass
TC3 = Pass

What i could have done better?
1. Optimizing the scripts, solution.
2. I have hard coded at multiple places, would make it more dynamic
3. Customize the html report to make it simpler with test case name and ids.

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