This is homework for position “*Junior IoT Sofware Engineer*”. Source code is in main.py file, which when executes download all the images from user entered webpage to images directory. List of all the URL’s of downloaded images are in .txt file and result of recent search is in .xlsx file. Writing in .txt and .xlsx files is the illustration of different options. Program is written using python 3 on windows operating system. But there are conditions that can check version of python on operation system. As package of this program is not created, so user needs to install first four dependencies, which are mentioned in list of dependencies. After execution of one cycle, there is also some useful information for user in console about execution time and total images.

***List of Dependencies***

In order to download dependencies, open command prompt or terminal depending on operating system and type pip install “dependency name”. Following are the list of dependencies require to execute program

1. requests
2. BeautifulSoup
3. openpyxl
4. xlsxwriter
5. sys
6. os, os.path
7. datetime

***Instructions***

If user executes the program for first time, installation of dependences is required. Following are the instructions to follow, in order to run the program.

1. Enter URL of webpage.
2. Images download in image directory, where main.py file is located.
3. History of all the images URL write in “List\_of\_all\_URL’s.txt” file.
4. Result of most recent search is stored in “last\_search\_result.xlsx”.
5. After execution, program runs again, enter “y” or “n” to continue or exit program respectively.
6. If user enter “y”, programs starts again from point 3, if user enter “n”, program stops.

