JOHNS HOPKINS
CAREY BUSINESS SCHOOL

Python for Data Analysis
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Homework 1 (4% of course grade)

Please perform these tasks in the order provided.

In this homework you will be guided to perform the necessary set-up before our first class. You will also learn about Python's basic data types and program control structures and answer questions based on these two topics. Completing this assignment guarantees your preparedness for week 1 of the class.

Part A: Change your default browser to `Chrome`: You do need to install `Google Chrome` on your computer. Other browsers specially `Safari` does NOT work with most of the packages we will use in this course.

- If you do not have `Google Chrome` browser, please download and install it first.
- Windows users: please follow the instructions at Change default browser in Windows and change your default browser to `Chrome`.
- Mac users: on your Mac, choose Apple menu → System Preferences→ General→ Default web browser → choose Chrome.

I do NOT want to see anyone using any browser other than `Google Chrome` for coding in this course.

This concludes part A of this assignment

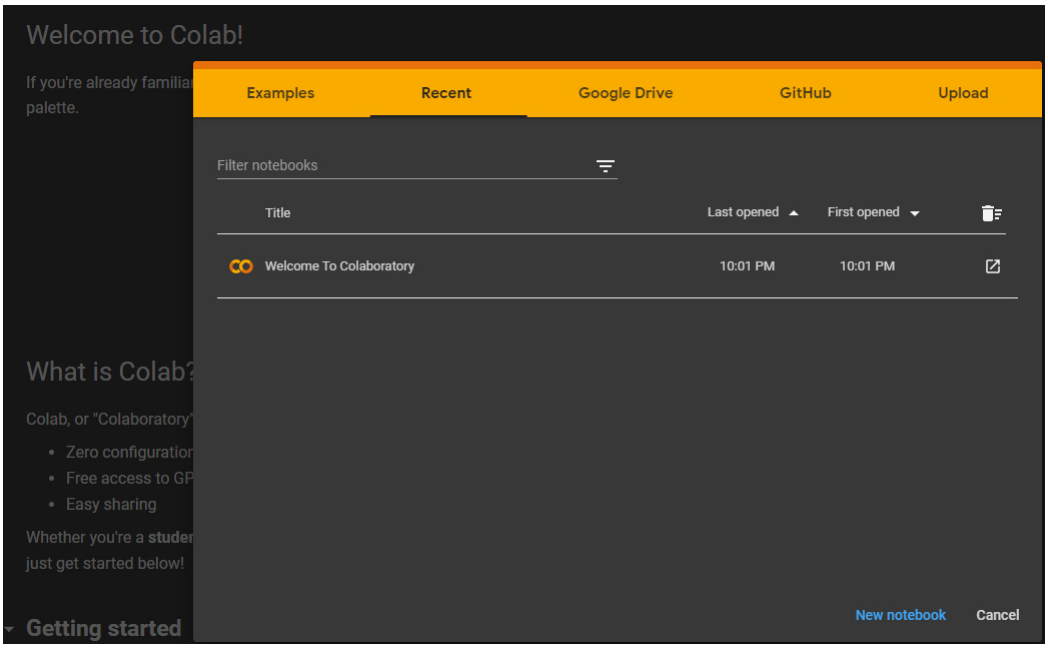
Part B: Setting up Google Colab account: You need a `gmail` account and an active internet connection for this step.

- If you do not have a `gmail` account, please create an account at www.gmail.com first.

Once you have a working `gmail` account, `sign in` to your `gmail` account at

https://colab.research.google.com/

If you do everything right, you'll see a menu like:



Click on `New notebook` button. This will take you to your very first `notebook`. In the very first cell type:

```
pip install covid
```

and click on the run button  on the left side of the cell.

This will install `covid` package. Once installations ends, the very last line of message you will get should be:

```
Successfully installed covid-2.5.2
```

Colab is a cloud service and allows you to write and execute Python code in your browser, with zero configuration required on your own computer.

With google Colab you can save your files (data and code files) in your google drive and read them conveniently.

This concludes part B of this assignment

Part C: Install Anaconda on your computer In this part you will install Anaconda software on your computer

- **C-1:** If you already installed Anaconda on your computer in the past, it is best if you uninstall the older version. Uninstalling Anaconda can be a bit tricky. Please watch the Uninstall Anaconda video in Canvas for all the details.
- **C-2:** If you are new to Anaconda, no worries at all. Please follow the instructions in the posted video to install the Anaconda software and setup your computer for this course.

This concludes part C of this assignment

Part D: Learn basics of Anaconda & JupyterLab Please watch the video posted in your course website. At the end of this step, you should have a working knowledge needed for Week 1's class.

This concludes part D of this assignment

Part E: Install covid package Install python `covid` package by running

```
pip install covid
```

in a JupyterLab cell of your local installation!

Note: If you get an error by running the above code, please try:

```
!pip install covid
```

This concludes part E of this assignment

Part F: Review `Python fundamentals document` These handouts, already available in your course website, covers python's basic data types (`int`, `float`, `str`, `bool`), covers basic functions such as `print` and `input`. They also cover program control structures such as `for`, `if...else`, and `while`. I have recorded two videos covering these topics. Please feel free to watch the video after reviewing handout.

This concludes part F of this assignment

Part G: Complete Introductory Homework in the blackboard There is a homework available in the course website based on **parts A-F**. This homework will test your understanding of `Python Fundamentals` document, as well. So please review these handouts and watch the accompanying videos before starting this homework!