BMEN 509 Introduction to Biomedical Imaging

Assignment 1

1. (25 pts) Read through the provided PythonTutorial document pages 1-2. Answer:

**a) What is the difference between an interpreter and a compiled language?**

A Compiled Language such as C++ needs to have its code compiled before executing its code, C++ needs to be complied using the command line gcc. Python Code is a interpreter language therefore not needing to be compiled and can run and execute the code directly using py, python, etc command line.

**b) Which operating systems support Python?**

Python can run on a wide variety of hardware therefore allowing it to be executed on multiple different OS’s such as Windows, Macintosh, Linux, and other X Window Systems of unix

**c) What is a Jupyter Notebook?**

It is a web based application that allows users to crate and share files that can contain code, equations, explanatory texts as wells as key visualizations such as graphs and charts.

**d) What is a markdown cell?**

A markdown cell is a block of markup code that can be change how things may look visually as well as the code functionality such as the given equation to a formula

**e) How do you run a code cell?**

You can select Shift-Enter or you can select the “Run” Play button on the header

2. (25 pts) Read through the provided GitHubTutorial document and follow the instructions to create your account (if you don’t already have one). You should request an **academic** account to access the feature that keeps code you upload private. Provide your username.

**ibrahim29asad**

3. (50 pts) Create a new **private** repository named BMEN509-UCID10045678 (where the 10045678 is **your** UCID) and create a Readme file. Edit the Readme file and write your name. **Provide the link to this repository**. Provide permission to the user **jaliladde** to this repository (this is your instructor’s and TA’s user names).

<https://github.com/ibrahim29asad/BMEN509-UCID30088413>

Note: **You are now set up for the interactive classes and to submit your assignments and labs!** We will work on syzygy for this class and you can work in this environment for your labs or project. However, you will be required to have on your GitHub a private repository for the class. Make sure you push the right version, provide the link in D2L and give permission to your teaching assistant and instructor. If your repositories are public we will be applying a 5% penalty! You have also the option to install the Jupyter environment on your computer, you can read the tutorials provided on D2L.

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Total 100 pts

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