CIV-650C
Assignment 1
IA state ID:_____

NOTE: Use the machines that were assigned to you. Let me know in case there is any problem with accessing it.

Part 1(30 points):
Github:
Go through the presentation on Linux and git and do the following (**Take snapshot at each for each of the below mentioned step and paste them in a word doc**):

- Create a **new repository** on **GitHub** (make it public and initiate it with the **README.md**)
- **Clone** the repository (on the machine that was assigned to you)
- **Add** a new **file** to this repository using the "vi editor"
- Add the file to **tracking**
- Do a **commit**
- Do a **push** to your GitHub account
- Create a **fix** (add some lines) to some file in your local repository and do a **git merge** operation

Your submission for the first part should have:

- A word or pdf document with snapshots for all the above mentioned tasks

Part 2(30 points):
Python
Go through the presentation on python and execute the following:

- Create a new folder named **python_project** for this project and cd into the **python_project** folder
- Write python code (name this file **capture.py**) to **read** the XML from the **URL** provided on GitHub (check **README.md** of Lecture 3) and **Write** the contents to a file named **'stream.xml'** (this step is mentioned in the presentation)
- Write python code (name this file **parser.py**) to **parse** the XML(**stream.xml**) and **print** the **Detector-ID** and **Status** (mentioned in presentation)

Your submission for the **second part** should have the following **files**:

- **capture.py**
- **stream.xml**

Part 3(40 points):
NOT MENTIONED IN THE PPT

- **Write** the **parsed output** (and only the parsed output i.e. the **Detector-ID** and **Status**) from the previous step to a file named **streamdata.csv** or **streamdata.xml**

Your submission for the **third part** should have:

- **streamdata.csv** or **streamdata.xml**