**First:**

To create user

Go to admin user… create user using the following command.

Open terminal

Enter bash

Type this….

**sudo useradd –m name or regno**

Note: first it will ask for root password

**sudo passwd name or regno**

**sudo usermod –aG sudo name or regno**

after this log out and log in using your name or regno

**Second: -** DS Lab Instruction for first lab:

1. Login to student

2. Open Terminal and enter **bash**

3. Find the version of python

**python –version** (work with python 3…if not installed try to install))

4. To download latest version of python :

**sudo apt-get install python3-pip**

(This will install pip - package installer for python)

5. To update

**sudo apt-get update**

6. To install pandas

**pip3 install pandas**

**pip3 install numpy**

**Note:** Check you have python3 or older version. If it is older version update it to python 3

7. To install matplotlib

**sudo apt-get install python3-matplotlib**

8. Execution - Use command:

In prompt type:

**$ gedit prog1.py**

Type your code and save it. Then

**$ python3 prog1.py** and check your output