**CSci 765: Assignment 1**

In this course, you will learn how to connect to a PostgreSQL database using Python on a Linux platform. While we will discuss the connection details later, the first assignment gives you a chance to practice without worrying about the details of the NDSU Computer Science Department details.

Submit code and screenshots of everything you did.

1) (5 points) Remind yourself of Linux basics, e.g. by looking through the following tutorial <http://www.ee.surrey.ac.uk/Teaching/Unix/index.html>

Go to the following site, which creates a virtual Linux environment for you (described at https://geekflare.com/run-linux-from-a-web-browser/)

<http://copy.sh/v86/?profile=linux26>

Use the following commands and describe in a Word or text document what the result is:

* ls
* ls -l
* ls -a
* cd tests
* pwd
* mkdir example\_dir
* ls -al > out
* more out
* chmod a+w out
* ls -al

Take a screenshot after this sequence of statements, which should show the directory and file you created with appropriately changed permissions.

Submit the document you wrote and the screenshot

2) (5 points) Either install Python 3 locally or use what is installed in the NDSU IT labs using the following instructions

<http://wiki.cs.ndsu.nodak.edu/doku.php?id=deptlab:newitsremotedesktop>

(later you will get an account in the Computer Science Department Linux lab)

Write a program that prints “Please enter an integer:” to the screen.

Modify the program to allow entering a number n. Let the program print out the factorial of n, i.e. 1\*2\*3\*…\* n

Please create your own function rather than using the built-in one.

Submit the code and a screenshot of the result.