

# New York University

## Tandon School of Engineering

### Department of Electrical & Computer Engineering

## Introduction to Operating Systems (CS-GY6233) Fall 2021

### Assignment 1

In this assignment, you are required to download and install the latest VMware Workstation Player from [www.vmware.com](http://www.vmware.com) and create a new virtual machine after downloading the latest Ubuntu Linux distribution from [www.ubuntu.com](http://www.ubuntu.com).

If you already have an Ubuntu linux machine, then you may use it, however it is recommended that you use a virtual machine for assignments that pertain to developing kernel modules. Please note that Mac OS is not the preferred system for this class and it behaves differently from Linux when used with pthreads. As such, you should install Linux even if you have a Mac OS.

After successfully installing and running Linux, create a new directory called hw1 in your home directory and then use one of the pre-installed editors (e.g. vi, gedit, etc) or download an editor of your choice.

Write a C program that prints the text “Hello world! This s CS6233 Fall 2021” on the first line, and then prints a random number whose value is between 0-99 on the next line. Your program shall then leave a blank line and then exit.

You should use gcc for compiling your program. You should name your output file hw1.out.

### **What to hand in (using Blackboard):**

- A source file named “**lab1.c**” (with appropriate comments). Do not attach project or make files.
- A .pdf file named “**lab1.pdf**”, containing:
  - Screen shot(s) of your terminal window showing the current directory, the command used to compile your program and the command used to run your program

### **RULES:**

- You shall **use kernel version 4.x.x or above**. You shall not use kernel version 3.x.x.
- You may consult with other students about GENERAL concepts or methods but copying code (or code fragments) or algorithms is NOT ALLOWED and is considered cheating (whether copied from other students, the internet or any other source).
- If you are having trouble, please ask your teaching assistant for help.
- You must submit your assignment prior to the deadline.