## Assignment 3 Neeraj Pandey, Raunak Basu

#### Structure of the file:

- NeerajPandey\_CS1217\_Assignment3.pdf contains the screenshots of output and short comments.
- 2. Folder "question-1" includes the syscall.c file which has been updated for Question 1 as per the requirements of the assignment
- 3. Folder "question-2" includes the files which had been updated for Question 2 as per the requirements of the assignment

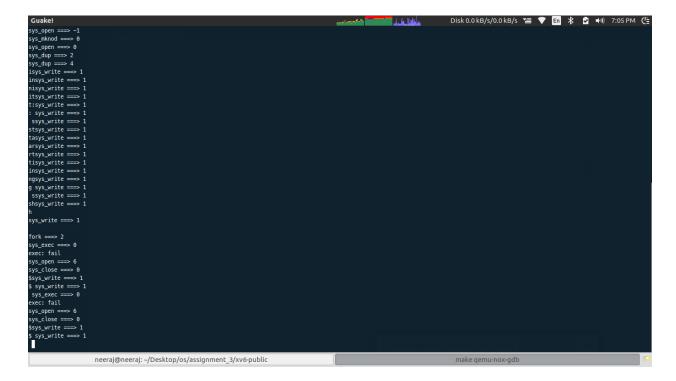
#### 0. Boot xv6

xv6 was booted by running the commands as shown in the screenshots below.



# 1. System call tracing

The xv6 kernel was modified to print out a line for each system call invocation. The required output was found, as shown in screenshot below.



### 2. Date System Call

- syscall.h: We update syscall.h and define date function with an associated value
- sycall.c: Update the external variables and syscall array with the above function
- user.h: Add the struct argument with a pointer to the cmostime() function in lapic.c
- date.c: Print date and time in the format DD/MM/YYYY MM:HH
- usys.s: We add "SYSCALL(date)"
- Update the Makefile with "\_date\"
- sysproc.c: Create system call function for date in order to generate a new system call
- Typing date in the xv6 shell gives the current UTC time: (result: 23/2/2021 15:23)

