## Lab 4 Operating Systems 18/11/2021

- 1. Write a program to show the difference between fork() and vfork() system call. Internet can be used to know about vfork().
- 2. Print the Process tree of the given PID and also print its parent, grand parent PID details until the root PID. Write a C program to take the input as PID and do above task. Do not use the 'pstree' command.
- 3. Write a program that forks 2 child processes. Child 1 prints a message every 1 sec. Child 2 sleeps for 10 secs, then kills child 1, then sleeps for 10 secs and terminates. The parent waits for both child processes to terminate then exits. Each process should print a 1-line message including its pid before/after each significant action such as sleep, kill, terminate, etc.
- 4. Explore the system() function and write a C program using this function.