

Ahmedabad University
School of Engineering and Applied Science

B.Tech (ICT), Semester - V
Course: CSE341- Operating Systems Lab
Assignment - 4, C Programming

Instructions

- **Write and test shell scripts/programs on unix/Linux platform**
 - **Last date of submission: 07/09/2020(Section-1) & 09/09/2020(Section-2)**
 - **This assignment should be submitted on an individual basis and use submission page at course web site**
-

- 1) Create one child process and make sure that child process runs first and then parent executes and vice versa (if it is possible). Print appropriate messages for validating it.
- 2) Write a program that creates a child process which executes command “ls” , prints its pid along with its parent pid. After that, Parent process should also print its pid and its child pid.
- 3) Create one child process and make it a zombie. (Use sleep(time);)
- 4) Find the pid of all the zombie processes and store it in a file.
- 5) Using system call find:(Take input of file name from the user)
 - a) The last time the file was accessed.
 - b) The recent time the file was modified.
 - c) The permissions on the file.’
- 6) Design a program in C to get specification of the machine
- 7) Write a program in C display all the system environment variable values and arguments passed to system