

Assignment 3

/* You need to put proper explanatory comment in your program to demonstrate the purpose and why you have used the C statements and system calls */

Assignment 3(a):-

Write a C program by using signal() system call to handle the reception of SIGINT signal by executing a particular (user) function, which function is responsible for creating a child process by using fork() system call and then you have to display the PROCESS ID and PARENT PROCESS ID from the parent process as well as from the child process.

Hints:

- * For generating, SIGINT (SIGINT is a keyboard interrupt signal) signal, you have to press Ctrl+C. So, by default pressing Ctrl+C in a running program leads to the termination of the running process. But, your program should provide a way to handle the keyboard interrupt through signal() system.

Assignment 3(b):-

Write a C program which will take the Process ID and signal ID as input to demonstrate the use of kill() system call.

Hints:

- * For demonstrating so, you modify the assignment 3(a) to handle different signals as many possible where handler of each signal prints signal number. Run the modified assignment 3(a).
- * Again from another terminal, run the assignment 3(b) which will take the Process ID of the modified assignment 3(a) and any valid signal value as input.
- * Your signal handler function of the assignment 3(b) should be able to display the signal ID of the generated signal.