Lab 6
08/12/2021
OS, CSE SEM V

Screenshot of all the commands should be saved.

1. Execute all commands related to running a process in background and bringing it to foreground. Similarly, from foreground to background.

2. Learn from Internet what is the use of alarm() and raise() system calls. Write C programs showing the use of these system calls.

3. Write your own signal handler function which can handle the signal numbers 2, 3, 8, 9, 19, 20. Here only one signal handler function should be written which can handle all above signals. Also, write the main() function to call the handler. Take the screenshot of the commands being used to execute this program.

4. Write a signal handler function for SIGINT which allows the user to press CTRL+C five times. When the user presses CTRL+C fifth time, it should show a warning to not to press CTRL+C one more time. But, if the user presses CTRL+C for 6^{th} time, the program should be terminated. Write the main() function to call the handler.

5. Write the use of following signals (i) SIGHUP (ii) SIGILL (iii) SIGSEGV (iv) SIGSTOP. Also, write C programs to show their use.

6. Let a parent process has 2 children. Write a C program where child1 stops the execution of child2 but parent continues the execution of child2.