Programming Tools - II
LAB ASSIGNMENT for Week # 2

1. Write a C program to create a child process using fork() system call. Also use wait() system call in parent process such that it gets the return status of its child, return status must be printed on console.

Hint: Use (i) WIFEXITED
          (ii) WEXITSTATUS
          (iii) WIFSIGNALED

POSIX macros to print the exit status of child process.

2. Write a program in C to demonstrate Zombie processes.

3. Use fork-exec combination where child *exec* the new program while parent continue to execute the original code. The new program here is *ls* command with command-line argument *-l.*

Extension: Execute your code from a directory that has lot of files (e.g /etc) and execute *ls -l* command. What happens if you enter *ctrl+c* as soon as the listing start to display. Try to display the exit status of child process as it has been interrurted by **ctrl+c**.