

Lab Exercises - III

1. Write a program that accomplish the following purpose:
 - a) Call the system call to create the child process and store the value returned from the call.
 - b) If the returned value is less than zero,
 1. Print ‘Unsuccessful Child Process Creation ‘and Terminate using exit system call.
 2. If the return value is greater than zero.
 - a) Add a wait system call so that the parent would wait for child process to complete.
 3. If the return value is equal to zero,
 - a) Print the parent ID and Make a loop to prints odd numbers from 1 – 10.
 - b) Print “Child Ends”.
2. Write a Program that Creates n-child process from same parent process using fork() in C.
3. Write Program to create four processes (1 parent and 3 children) where they terminate in a sequence as follows:
 - a) Parent process terminates at last.
 - b) First child terminates before parent and after second child.
 - c) Second child terminates after last and before first child.
 - d) Third child terminates first.
4. Write a program which creates processes 4 processes for parallel programming. Each parent will wait for the termination of its child.
5. Write a C program that creates child processes as many times as user wants until user inputs.
6. Implement the following 9 tree structure. Each node must print its name and PID. e.g. I am Process A and my PID is 2453

