

**Indian Institute of Engineering Science and Technology, Shibpur.
IT Department , Session 2017 July**

OPERATING SYSTEM LABORATORY 2017

Assignment 2

- 1) Create a child process and find out the execution time of a loop running (a) 10,000 times, (b) 10,00,000 ,and (c) 10,000,000. Verify if the execution time increases linearly and explain.
- 2) Find out the maximum number of processes that can be forked in your system.
- 3) Demonstrate under what situation a zombie is created in a system. Also, demonstrate how zombie creation can be prevented in four different ways.