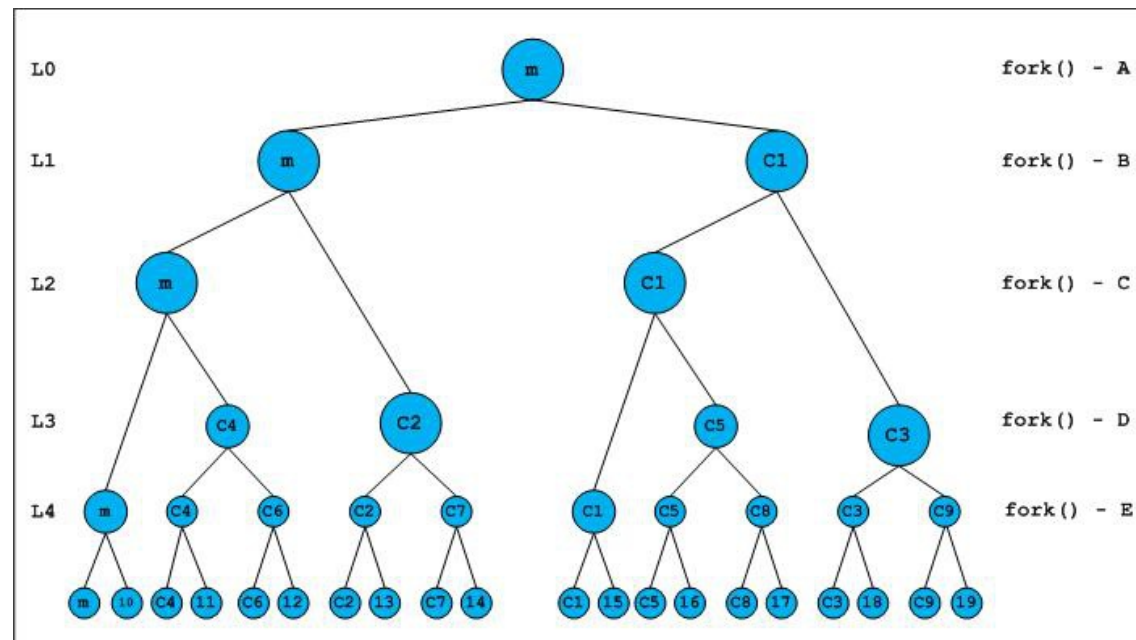Operating Systems (B. Tech)
Digital Assignment - 1

1. Write a C Program using fork to create process as shown below (binary tree). Elaborate in details the method of process creation.

2. Write a program to sort the numbers in parent process and print the unsorted numbers in child process. For example :

Input : 5, 2, 3, 1, 4

Output :

Parent process

sorted numbers are

1, 2, 3, 4, 5

Child process

numbers to sort are

 5, 2, 3, 1, 4

3. What is Zombie and Orphan Processes. Write a Zombie and Orphan Processes in C and show the process table after executing both.

4. Write Zombie Processes and their Prevention in C and elaborate the steps also show the process table.