

ASSIGNMENT 4

1. All the assignments should be completed and uploaded before the deadline. Marks will be deducted for the submissions made after the deadline.
2. Markings will be based on the correctness and soundness of the outputs. Marks will be deducted in case of plagiarism.
3. Proper indentation & appropriate comments (if necessary) are mandatory.
4. You should zip all the required files and name the zip file as roll_no .zip , eg. 1901CS01.zip.
5. Provide a readme file with all the execution details (commands to execute) of the codes and outputs/observations (if necessary).
6. Upload your assignment (the zip file) in the following link:
<https://forms.gle/QuWMirmwGb1wCQgQ8>

1. Write a program in C, which takes n, as an user input, and create n number of zombie processes. Show that the created processes are zombie processes (ADD SCREENSHOT)

2. Write a program in C, which takes n, as an user input, and create n number of orphan processes.

3. Write a program, which will-

- Take a user input N
- Make 2 child processes.
- one child process should generate first N LUCAS sequence

(https://en.wikipedia.org/wiki/Lucas_number).

- The 2nd child process should only print the LUCAS sequence (NOT GENERATE) (USE FILE OR SOME OTHER METHOD TO SHARE)

4. Write a program which will-

- Make 3 threads:
- One will copy the source program to another file f2.
- second will print contents of f2.
- Third will delete the file f2.