**EXPERIMENT 1**

**AIM:** Create a new process by invoking the appropriate system call. Get the process identifier of the currently running process and its respective parent using system calls and display the same using a C program.

## ALGORITHM:

1. Include necessary headers: Include the necessary header files like

<stdio.h> and <unistd.h> for using system calls.

1. Declare variables: Declare variables to hold the process ID (pid\_t pid) and the parent process ID (pid\_t ppid).
2. Get the current process ID: Use the getpid() system call to retrieve the process ID of the current process.
3. Get the parent process ID: Use the getppid() system call to retrieve the parent process ID.
4. Display the process IDs: Print the process IDs to the console.
5. Create a new process: Use the fork() system call to create a new process. Check the return value of fork() to determine whether the code is running in the parent or child process.
6. Display process IDs in child and parent processes: Depending on whether the process is the parent or the child, display the respective process IDs.

A computer screen with a black background

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