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Section: Gx
Subject : Operating System Lab

Code:

```
// 2020CSB010 GOURAV KUMAR SHAW

#include <stdio.h>
#include <unistd.h>
#include <stdlib.h>

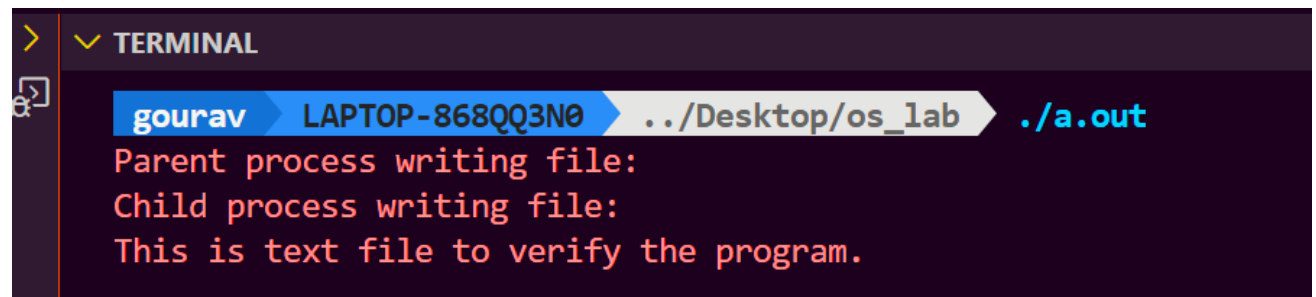
int main() {
    FILE *fp = fopen("textFile.txt", "w");
    if (fp == NULL) {
        printf("Error opening file\n");
        exit(1);
    }

    pid_t pid = fork();

    if (pid < 0) {
        printf("Fork failed\n");
        exit(1);
    } else if (pid == 0) {
        // child process
        char c;
        printf("Child process writing file:\n");
        while ((c = fgetc(fp)) != EOF) {
            putchar(c);
        }
        printf("\n");
    } else {
        // parent process
        char c;
        printf("Parent process writing file:\n");
        while ((c = fgetc(fp)) != EOF) {
            putchar(c);
        }
    }
}
```

```
    printf("\n");  
}  
fclose(fp);  
return 0;  
}
```

Output:

A terminal window with a dark purple background. The title bar says 'TERMINAL'. The prompt is 'gourav@LAPTOP-868QQ3N0: ../Desktop/os_lab'. The command './a.out' has been executed. The output is displayed in red text: 'Parent process writing file:', 'Child process writing file:', and 'This is text file to verify the program.'

```
> ✓ TERMINAL  
gourav@LAPTOP-868QQ3N0: ../Desktop/os_lab ./a.out  
Parent process writing file:  
Child process writing file:  
This is text file to verify the program.
```