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Assignment 9

Title - File Handling system calls

Problem Statement - Implement an assignment using File Handling system calls (low level system calls like open, read, write, etc).

Theory -

File description table-
It is collection of integer array indices that are file descriptors in which elements are provided to field table entries.

File table Entry- Field table entries is a a structure in- memory surrogate for an open file.

Std. file descriptors - When any process starts, then that process file description tables fd (file descriptor) open automatic

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There are 4 types of I/O system calls-

1) create: used to create a new empty file
syntax: int create (char *filename, mode_t mode)
returns: 1st unused fd.

2) open: used to open file for reading or writing or both
syntax: #include <sys/type.h>

3) close: tells the os you are done with fd and close the file which pointed by fd.
syntax: int close(int fd)

return: 0 on success, 1 on error.

4) read: from file indicated by file descriptor filefd.
syntax: size_t read (int fd, void *buf, size_t cnt);

return: return no. of bytes read on success
return 0 for eof, -1 on error, -1 on signal interrupt.

Conclusion:
I understood and implemented an assignment using file handling system calls (low level system calls like open, read).

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