

## OS Assignment 2:

### Submitted By:

- Md. Rakibul Hasan - 20.
- Ahmed Samin Yeaser Kabir - 44

### Implementation:

We implemented `open( )`, `close( )`, `read( )`, `write( )`, `dup2()`, `lseek()` functions.

Each process contains a File descriptor array of size `MAX_PROCESS_OPEN_FILES`. Among those index file 0,1,2 are reserved.

- Index 0 is reserved for `stdin`.
- Index 1 is reserved for `stdout`.
- Index 2 is reserved for `stderr`.

Others indexes are used for file read and write. Index 0,1,2 are initialized when a process is created. I need to add this part in `proc_create_runprogram(const char *name)` function in `proc.c` file.

We need to change these files:

- `asst2/src/kern/syscall/file.c`
- `asst2/src/kern/include/fule.h`
- `asst2/src/kern/include/proc.h`
- `asst2/src/kern/include/syscall.h`
- `asst2/src/kern/arch/mips/syscall/syscall.c`
- `asst2/src/kern/proc/proc.c`
- `asst2/src/kern/include/uiio0.h`

Helper Functions:

- `open2`
- `open`
- `close`