IO Labs -I

- 1. write a program to open a file descriptor on a data file and perform following
 - a. initiate a read operation on the file for page size
 - b. enable write mode
 - c. initiate page size write operation
 - d. reposition file offset to beginning of the file data
 - e. initiate read till the end of the file
- 2. write a program that creates a new file (in PWD) and opens file descriptor in non blocking mode.
- 3. write a program to provide file copy functionality
 - a. copy source file to create a target file
 - b. do not use read/write operations to transfer data b/w source and destination files
- 4. write a program that transfers data read from a pipe into a persistent file
 - a. use named pipe
 - b. check if it is possible to move data b/w pipe and file without using read/write ops
- 5. write a program to list files in current directory
- 6. write a program to store following structure instances into a persistent file

```
struct msg{
          int id;
          char buf[1024];
          int prio;
};
```

- a. program should create a file and write at least 10 instances of the above structure.
- b. have the program read alternate records of a above instances from the file and write to a tmp file
 - c. write another program that extracts message of a specified priority from the file
- 7. write a program to carry out following tasks
 - a. create a new persistent file of fixed size(1024bytes)
 - b. attempt to write 2048 bytes of data and check the results of write operations

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8. write a program that performs read/write on a file without altering file descriptor offsets

hints: man pages (mktemp, fnctl, mkfifo, splice)

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