

Lab Assignment 4: Print Metadata of a File in xv6 System

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Implementation:-

1. Make a user function name file_meta.c

2. Mark its entry in makefile

//calling

after kernel booting on qemu terminal

file_meta.c “file.txt” 512

globally defined character array of roll number and defined the block size of 512 bytes

//creating the file name

file_create(file_name, size);

made one function that call open() function call -- it open if the file exist else create in write only mode

//created the buffer size

char buffer[size_of_block];

Ans each entry of buffer array storing each character – as character have data size of 1 byte thus each block will store 512 characters

//passing roll number in round robin function

buffer[i]=roll[i%14];

//using write function to write in file from buffer

write(fd, buffer, size_of_block);

passing buffer pointer , file descriptor and size

other meta data can be accessed like

```
// st->dev = ip->dev;
```

```
// st->ino = ip->inum;
```

```
// st->type = ip->type;
```

```
// st->nlink = ip->nlink;
```

```
// st->size = ip->size;
```

[illegible]