Lab: 3

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Date of Performance	Faculty's Signature_	
Laboratory Objective: To	implement I/O calls of UNIX	
Learning Outcomes: Stud	lents will be able to understa	and and implement I/0
calls		

Write programs using the I/O System calls of UNIX operating system

1. open()

```
#include<stdio.h>
#include<sys/types.h>
#include<fcntl.h>
#include<fcntl.h>
#include<fcntl.h>
#include<errno.h>

int main(int argc,char *argv[]){
    int fd;
    if(2 !=argc){
        printf("\n Usage: \n");
        return 1;
    }

    errno =0;
    fd=open(argv[1],0_RDONLY);

    if(-1==fd){
        printf("\n open() failed with error [%s]\n", strerror(errno));
        return 1;
    }
    else{
        printf("\n open() successful\n");
}
```

```
$ ./open
Usage:

LAB ~
$ nano openCall.c

LAB ~
$ ./open newfile.txt

open() successful
```

2. read()

```
$ ./read
```

3. write()

```
#include<unistd.h>
#include<fcntl.h>
int main(void){
    int filedesc = open("newfile.txt",0_WRONLY | 0_APPEND);
    if(filedesc<0){
        return -1;
    }
    if(write(filedesc,"This will be output to newfile.txt\n",36)!=36){
        write(2, "There was an error writing to newfile.txt\n",43);
        return -1;
    }
    return 0;
}</pre>
```

\$./write

```
$ cat newfile.txt
hi!!This will be output to newfile.txt
This will be output to newfile.txt
```

4. stat()