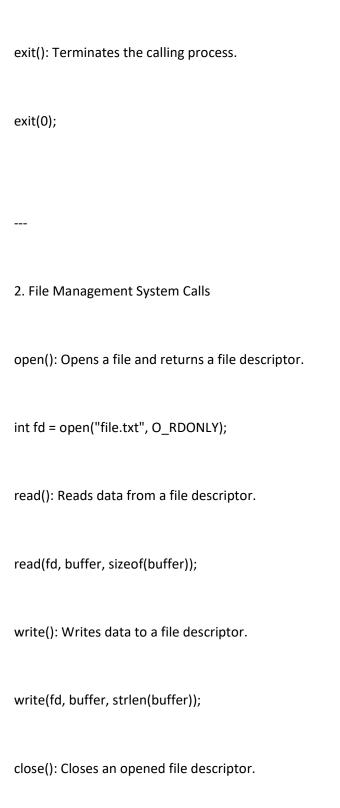
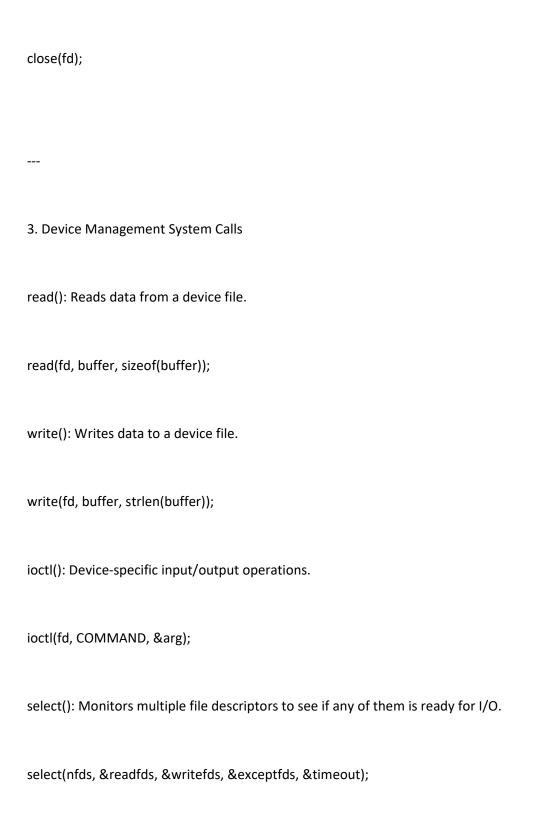
## 4ITRC2 Operating system Lab

## Lab Assignment 4

Name: Pawan Kasde
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Aim : To study and learn about various system calls
To perform: COmprehensive study of different categories of Linus system calls, catergorized as
1. Process Management System Calls
fork(): Used to create a new process by duplicating the current process. The new process is
called the child process.
pid_t pid = fork();
p.s_cp.s rem(j)
exec(): Replaces the current process image with a new process image.
execl("/bin/ls", "ls", NULL);
wait(): Makes the parent process wait until all of its child processes have terminated.
int status;
wait(&status);





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4. Network Management System Calls socket(): Creates an endpoint for communication. int sockfd = socket(AF\_INET, SOCK\_STREAM, 0); connect(): Initiates a connection on a socket. connect(sockfd, (struct sockaddr \*)&serv\_addr, sizeof(serv\_addr)); send(): Sends data on a socket. send(sockfd, message, strlen(message), 0); recv(): Receives data from a socket. recv(sockfd, buffer, sizeof(buffer), 0);

5. System Information Management System Calls

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getpid(): Gets the process ID of the calling process.
pid_t pid = getpid();
getuid(): Gets the real user ID of the calling process.
uid_t uid = getuid();
gethostname(): Gets the standard host name for the current machine.
char hostname[1024];
gethostname(hostname, sizeof(hostname));
sysinfo(): Retrieves overall system statistics.
struct sysinfo info;
sysinfo(&info);
```