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Batch: C

Exp.No: 6

Aim: UPDATE ON FILE FOR SIMULTANEOUS READ AND WRITE

Program:

```
#include<fcntl.h>
#include <stdio.h>
#include<stdlib.h>
#include <string.h>
#include <unistd.h>
int main (int argc, char* argv[]) {
        char* file=argv[1];
        int fd,sz;
        char *c=(char *)calloc(100,sizeof(char));
        struct flock lock;
        printf ("I am opening the file %s\n", file);fd = open (file, O_RDWR);
        printf ("I am locking it now.....\n");
        memset (&lock, 0, sizeof(lock));
        lock.l_type = F_RDLCK;
        fcntl(fd,F_SETLKW, &lock); // I have set the lock.
        printf ("I have Locked the file.....:\n");
        sz=read(fd,c,11);
```

Output:

}

CASE 1) WHEN LOCK IS SET TO WRITE LOCK:

```
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```

CASE 2) WHEN LOCK IS SET TO READ LOCK:

```
I am opening the file msg.txt
I am locking it now.....
I have Locked the file.....:
called read ( 3, c,11).It returned 11 bytes were read.
Those bytes are:
I
l
```

```
I am opening the file msg.txt
I am locking it now.....
I have Locked the file.....:
called read ( 3, c,11).It returned 11 bytes were read.
Those bytes are:
I
o
```

CONCLUSION:

Hence, we successfully written a program that will prevent destructive update of files by locking.