

PROGRAM 6:

(i)FILE-LOCK

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <fcntl.h>
#include <errno.h>
int main(int argc,char *argv[])
{
    int fd;
    char buffer[255];
    struct flock fvar;
    if(argc==1)
    {
        printf("usage: %s filename\n",argv[0]);
        return -1;
    }
    if((fd=open(argv[1],O_RDWR))== -1)
    {
        printf("open error");
        exit(1);
    }
    fvar.l_type=F_WRLCK;
    fvar.l_whence=SEEK_SET;
    fvar.l_start=0;
    fvar.l_len=100;
    if((fcntl(fd,F_SETLK,&fvar))==0)
    {
        sleep(10);
        printf("press enter to release lock\n");
        getchar();
        fvar.l_type = F_UNLCK;
```

```
fvar.l_whence = SEEK_SET;
fvar.l_start = 0;
fvar.l_len = 100;
if((fcntl(fd,F_UNLCK,&fvar))==-1)
{
perror("fcntl");
exit(0);
}
printf("Unlocked\n");
close(fd);
return 0;
}
else
{
fcntl(fd,F_GETLK,&fvar);
printf("\nFile already locked by process (pid):\t%d\n",fvar.l_pid);
return -1;
}
}
```