}

```
1. Perform reverse reading of a file by using Iseek API
    #include <fcntl.h>
    #include <stdlib.h>
    #include <sys/stat.h>
    #include <unistd.h>
    int main(int argc, char *argv[]) {
      char buf;
      int fd, size;
      fd = open(argv[1], O_RDONLY);
       size = Iseek(fd, -1, SEEK_END);
       while (size-- >= 0) {
         read(fd, &buf, 1);
         write(STDOUT_FILENO, &buf, 1);
         lseek(fd, -2, SEEK_CUR);
      }
       return 0;
2. Program to emulate Is-I command using appropriate API
    #include <stdio.h>
    #include <stdlib.h>
    #include <sys/stat.h>
    #include <unistd.h>
     int main(int argc, char *argv[]) {
      struct stat statbuf;
      // statbuf is from sys/stat.h
      if (lstat(argv[1], &statbuf) == -1) {
         printf("Couldn't stat file!\n");
         exit(0); }
       printf("File: \t%s\n", argv[1]);
       printf("UID : \t%d\n", statbuf.st_uid);
       printf((S_ISDIR(statbuf.st_mode)) ? "File is a directory\n" : "");
       printf("GID : \t%d\n", statbuf.st_gid);
       printf("Type and permission : %o\n", statbuf.st_mode);
       printf("No of links : %ld\n", statbuf.st nlink);
       printf("Inode no : %Id\n", statbuf.st_ino);
       exit(0);
```

```
today is friday
^C
srishti@DESKTOP-8U2GMHR:~$ cat random.txt
hi how are you
today is friday
srishti@DESKTOP-8U2GMHR:~$ ./lseek random.txt
-bash: ./lseek: No such file or directory
srishti@DESKTOP-8U2GMHR:~$ sh lseek random.txt
sh: 0: Can't open lseek
srishti@DESKTOP-8U2GMHR:~$ sh lseek.cpp random.txt
lseek.cpp: 5: Syntax error: "(" unexpected
srishti@DESKTOP-8U2GMHR:~$ vi lseek.cpp
srishti@DESKTOP-8U2GMHR:~$ vi lseek.cpp
srishti@DESKTOP-8U2GMHR:~$ sh lseek.cpp random.txt
lseek.cpp: 5: Syntax error: "(" unexpected srishti@DESKTOP-8U2GMHR:~$ vi lseek.cpp
srishti@DESKTOP-8U2GMHR:~$ sh lseek.cpp random.txt
lseek.cpp: 5: Syntax error: "(" unexpected
srishti@DESKTOP-8U2GMHR:~$ vi lseek.cpp
srishti@DESKTOP-8U2GMHR:~$ g++ lseek.cpp -o lseekoutput
srishti@DESKTOP-8U2GMHR:~$ ./lseekoutput random.txt
yadirf si yadot
uoy era woh ihsrishti@DESKTOP-8U2GMHR:~$ cat random.txt
hi how are you
today is friday
srishti@DESKTOP-8U2GMHR:~$ ./lseekoutput random.txt
yadirf si yadot
```