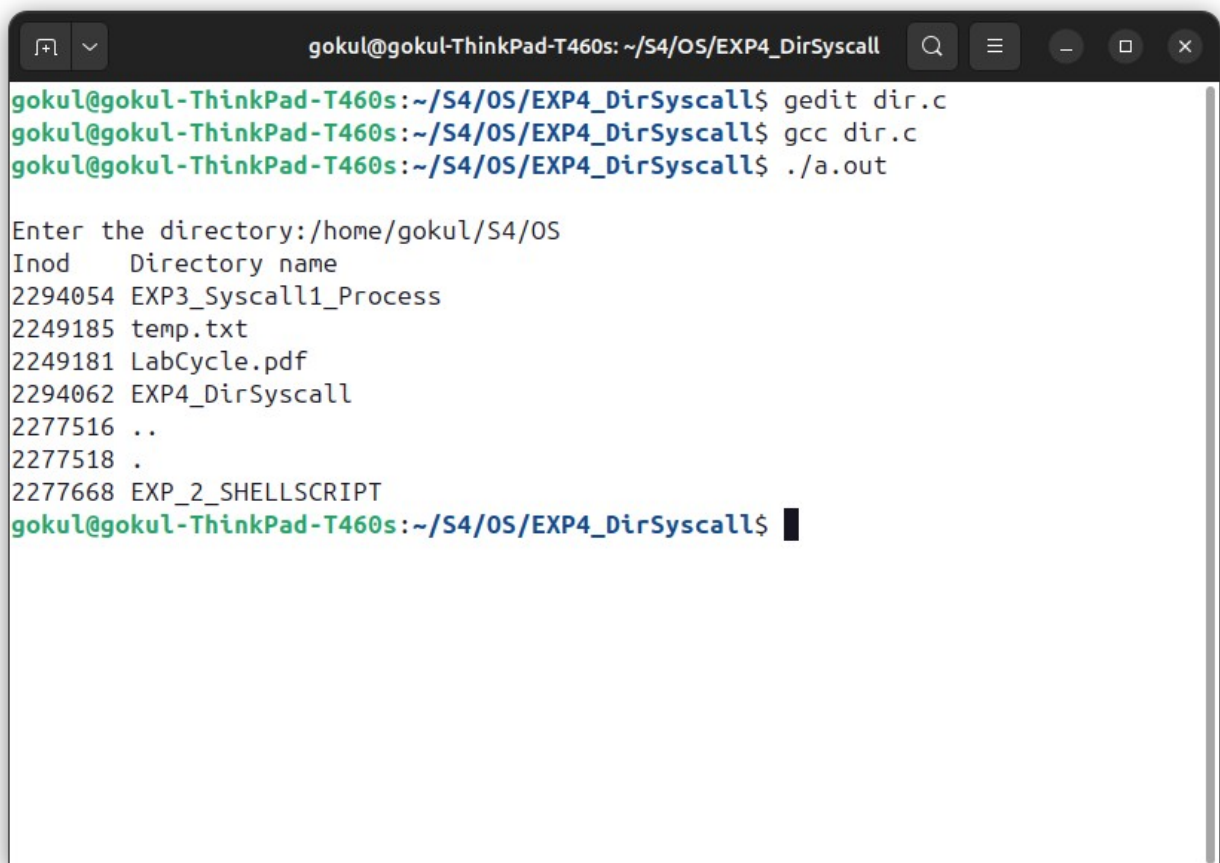


```

#include<stdio.h>
#include<sys/types.h>
#include<dirent.h>

void main(){
    DIR *dir;
    struct dirent *ptr;
    char dirname[100];
    printf("\nEnter the directory:");
    scanf("%s",dirname);
    dir=opendir(dirname);
    printf("Inod\tDirectory name\n");
    while((ptr=readdir(dir))!=NULL){
        printf("%ld\t%s\n",ptr->d_ino,ptr->d_name);
    }
    closedir(dir);
    return;
}

```



The image shows a terminal window titled 'gokul@gokul-ThinkPad-T460s: ~/S4/OS/EXP4\_DirSyscall'. The user has executed the following commands: `gedit dir.c`, `gcc dir.c`, and `./a.out`. The program prompts 'Enter the directory: /home/gokul/S4/OS' and displays a list of files and directories with their inodes and names. The output is as follows:

```

gokul@gokul-ThinkPad-T460s:~/S4/OS/EXP4_DirSyscall$ gedit dir.c
gokul@gokul-ThinkPad-T460s:~/S4/OS/EXP4_DirSyscall$ gcc dir.c
gokul@gokul-ThinkPad-T460s:~/S4/OS/EXP4_DirSyscall$ ./a.out

Enter the directory:/home/gokul/S4/OS
Inod    Directory name
2294054 EXP3_Syscall1_Process
2249185 temp.txt
2249181 LabCycle.pdf
2294062 EXP4_DirSyscall
2277516 ..
2277518 .
2277668 EXP_2_SHELLSCRIPT
gokul@gokul-ThinkPad-T460s:~/S4/OS/EXP4_DirSyscall$

```