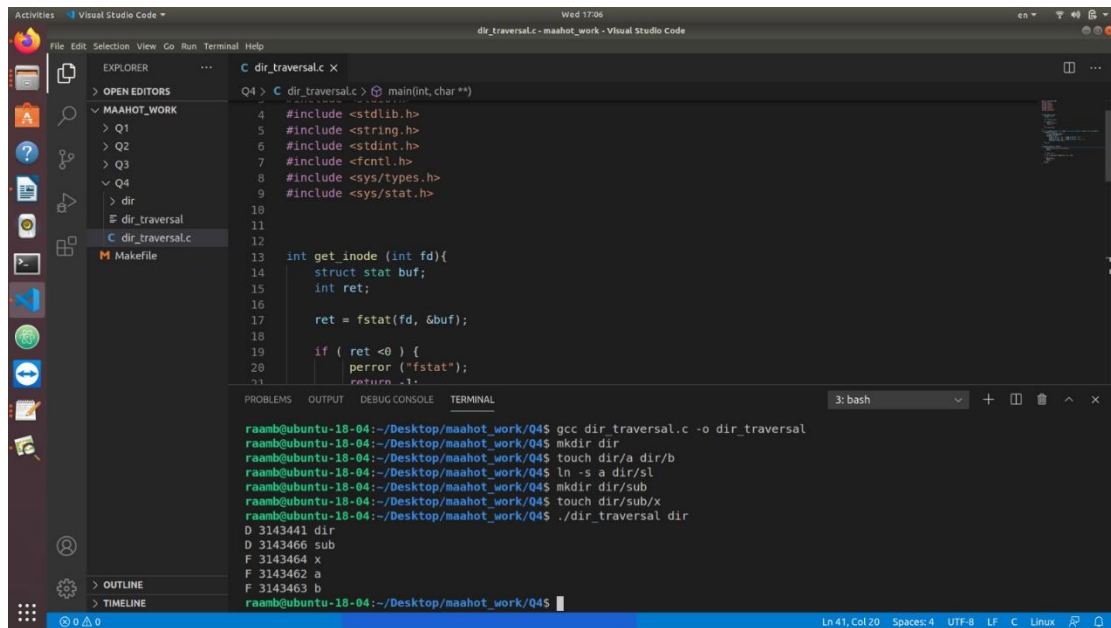


פה אני מציג מה קורה בסוף התהליך אחרי שרשמתי את הפקודות לפי הדוגמה
והרצתי את הקובץ



The screenshot shows the Visual Studio Code interface with a C file named `dir_traversal.c` open. The code defines a `get_inode` function that uses `fstat` to retrieve file metadata. The `main` function creates a directory structure: `dir`, `dir/a`, `dir/b`, `dir/sub`, and `dir/sub/x`. It then runs the `dir_traversal` program, which prints the inode and file type for each entry.

```
Q4 > C dir_traversal.c > main(int, char **)
4 #include <stdlib.h>
5 #include <string.h>
6 #include <stdint.h>
7 #include <fcntl.h>
8 #include <sys/types.h>
9 #include <sys/stat.h>
10
11
12
13 int get_inode (int fd){
14     struct stat buf;
15     int ret;
16
17     ret = fstat(fd, &buf);
18
19     if ( ret <= 0 ) {
20         perror ("fstat");
21         return -1;
22     }
23 }
```

The terminal output shows the compilation and execution of the program:

```
raamb@ubuntu-18-04:~/Desktop/maahot_work/Q4$ gcc dir_traversal.c -o dir_traversal
raamb@ubuntu-18-04:~/Desktop/maahot_work/Q4$ mkdir dir
raamb@ubuntu-18-04:~/Desktop/maahot_work/Q4$ touch dir/a dir/b
raamb@ubuntu-18-04:~/Desktop/maahot_work/Q4$ ln -s a dir/sl
raamb@ubuntu-18-04:~/Desktop/maahot_work/Q4$ mkdir dir/sub
raamb@ubuntu-18-04:~/Desktop/maahot_work/Q4$ touch dir/sub/x
raamb@ubuntu-18-04:~/Desktop/maahot_work/Q4$ ./dir_traversal dir
D 3143441 dir
D 3143466 sub
F 3143464 x
F 3143462 a
F 3143463 b
raamb@ubuntu-18-04:~/Desktop/maahot_work/Q4$
```