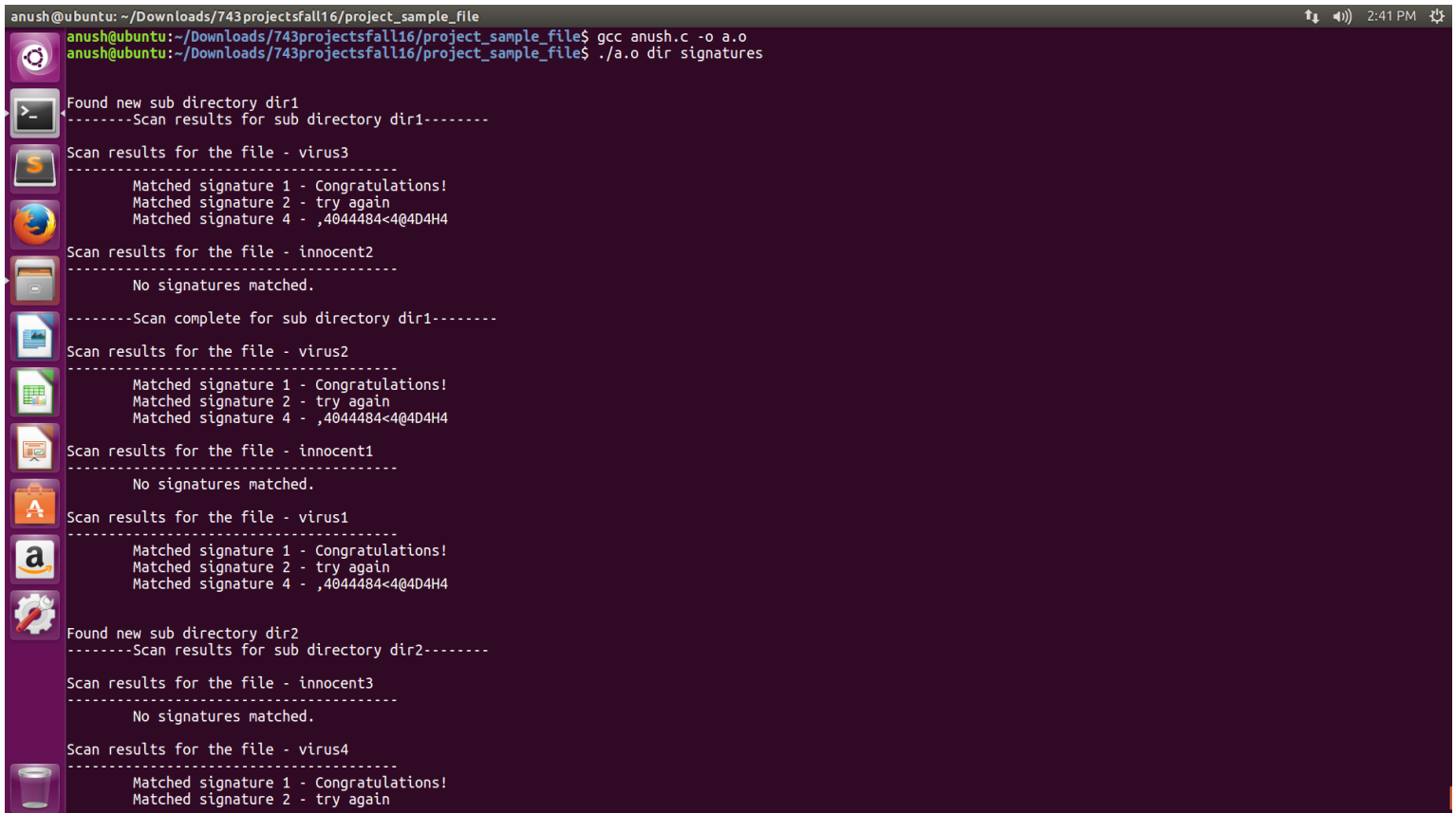


How to run the program?

The program was written and tested on a Ubuntu virtual machine. The commands to run it are:

```
gcc write_signatures.c -o write_signatures.out
./write_signatures.out
gcc scanner.c -o scanner.out
./scanner.out <directory> signatures
```

A screenshot of a terminal window on a Ubuntu system. The terminal shows the execution of a program that scans a directory for files. The user runs the command 'gcc anush.c -o a.o' and then './a.o dir signatures'. The program outputs the following: 'Found new sub directory dir1', '-----Scan results for sub directory dir1-----', 'Scan results for the file - virus3', 'Matched signature 1 - Congratulations!', 'Matched signature 2 - try again', 'Matched signature 4 - ,4044484<4@4D4H4', 'Scan results for the file - innocent2', 'No signatures matched.', '-----Scan complete for sub directory dir1-----', 'Scan results for the file - virus2', 'Matched signature 1 - Congratulations!', 'Matched signature 2 - try again', 'Matched signature 4 - ,4044484<4@4D4H4', 'Scan results for the file - innocent1', 'No signatures matched.', 'Scan results for the file - virus1', 'Matched signature 1 - Congratulations!', 'Matched signature 2 - try again', 'Matched signature 4 - ,4044484<4@4D4H4', 'Found new sub directory dir2', '-----Scan results for sub directory dir2-----', 'Scan results for the file - innocent3', 'No signatures matched.', 'Scan results for the file - virus4', 'Matched signature 1 - Congratulations!', 'Matched signature 2 - try again'. The terminal window has a dark purple background and a sidebar on the left with various application icons. The top of the window shows the path '~ /Downloads/743projectsfall16/project\_sample\_file' and the time '2:41 PM'.

The scanner was written using the C programming language. The format for the signature files is the simplest with a new signature on each line. The signature file must be a text file.

