

Embedded Software Essentials

Development Environments Overview

C1 M1 V7

Command Line Interface

- **Command Line Interface (CLI)**
access through **Terminal**



ecen5013-Ubuntu14 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Terminal

```
alex@ubuntu14: ~/repos/ese-coursera/demos
alex@ubuntu14:repos$ pwd
/home/alex/repos
alex@ubuntu14:repos$ cd ese-coursera/
alex@ubuntu14:ese-coursera$ (test) ls -la
total 28
drwxrwxr-x 6 alex alex 4096 Jul 30 13:13 .
drwxrwxr-x 8 alex alex 4096 Jul 21 21:38 ..
drwxrwxr-x 5 alex alex 4096 Aug  1 00:16 demos
drwxrwxr-x 8 alex alex 4096 Aug  1 00:25 .git
drwxrwxr-x 2 alex alex 4096 Jul 21 21:50 git_tutorial
-rw-rw-r-- 1 alex alex 1708 Jul 21 21:44 README.md
drwxrwxr-x 4 alex alex 4096 Jul 21 21:54 sessions
alex@ubuntu14:ese-coursera$ (test) pwd
/home/alex/repos/ese-coursera
alex@ubuntu14:ese-coursera$ (test) cd demos
alex@ubuntu14:demos$ (test) pwd
/home/alex/repos/ese-coursera/demos
alex@ubuntu14:demos$ (test) ls
c1m1v9 c1m2v2 c1m2v3
alex@ubuntu14:demos$ (test)
```

Command Line Interface

- **Command Line Interface (CLI)**
access through **Terminal**
- Commands are typed at the **Prompt**

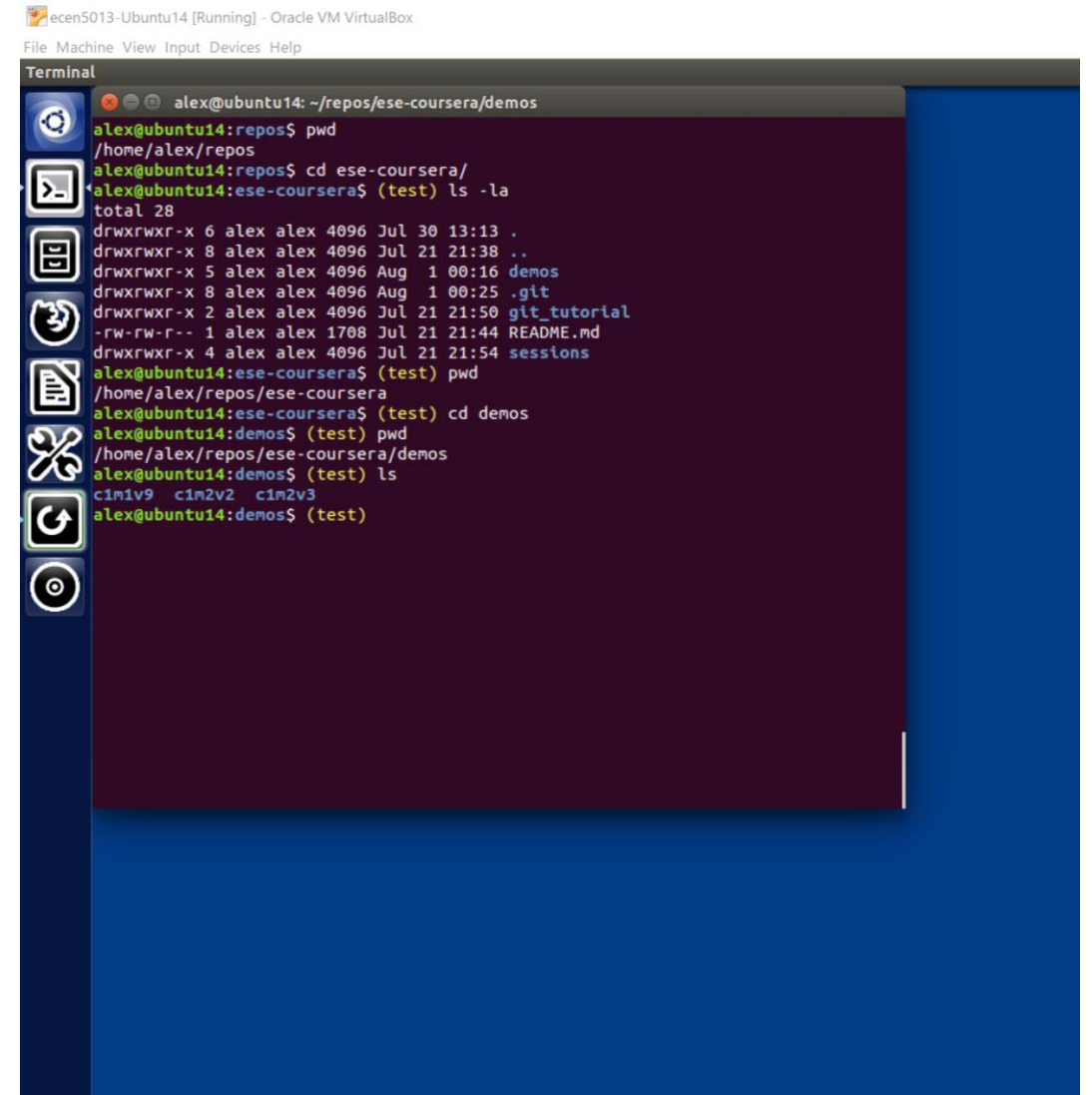
\$ pwd

\$ cd ./repos/ese-coursera

\$ ls -la

Prompt

Commands

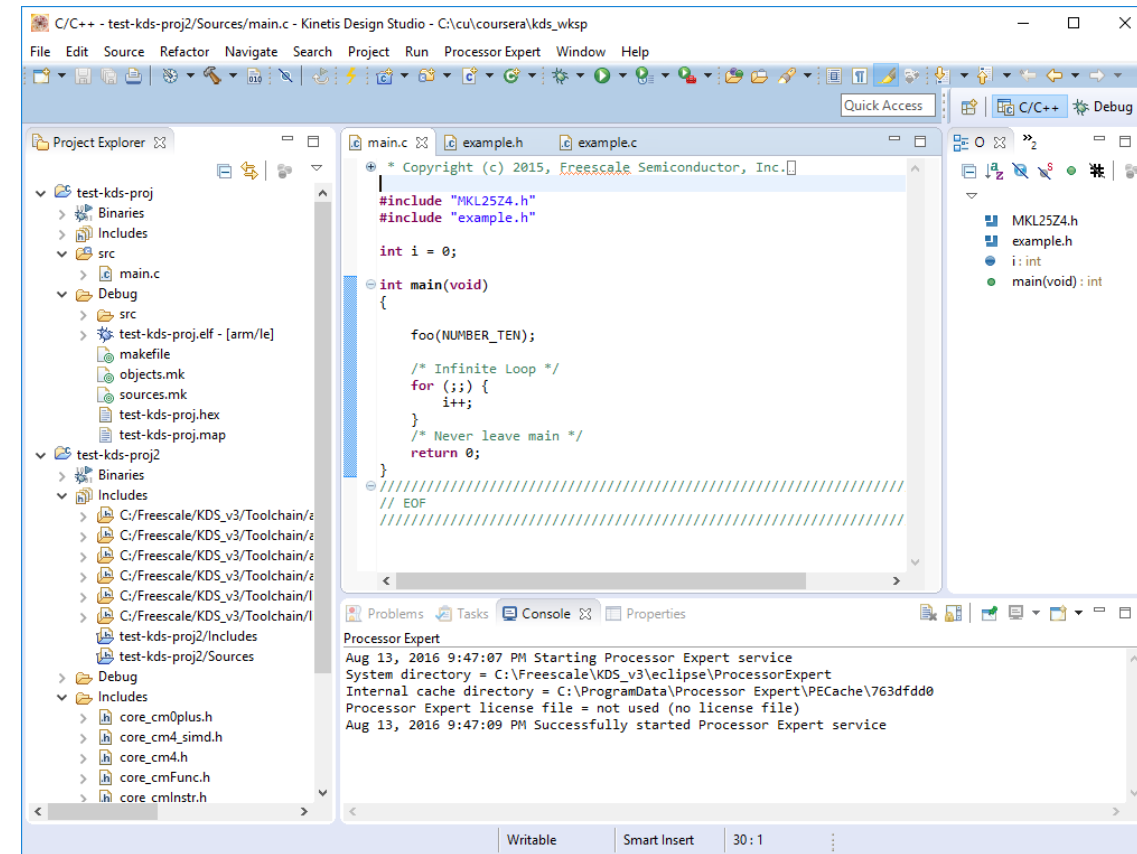


ecen5013-Ubuntu14 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

```
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/home/alex/repos/ese-coursera/demos
alex@ubuntu14:demos$ (test) ls
c1m1v9 c1m2v2 c1m2v3
alex@ubuntu14:demos$ (test)
```

Development Environments

- Integrated Development Environment (IDE)
 - Editing Code
 - Building
 - Installing
 - Debugging
- Abstracts command line interface with Graphical User Interface (GUI)



Kinetis Design Studio
(KDS) IDE¹