

**CPSC 254 Lab #5**  
**Install an application**  
(Originally prepared by David Heckathorn, modified by Shivansh Vijay Nathani, Tejaas Reddy)

In this lab, you will install the application “nano”. This is a very useful text editor, designed to aid in programming

In Ubuntu, start the terminal

# Type **sudo apt-get update** It is a good idea to update your system before installing new software.

sudo is a means to switch temporarily from an ordinary user, to an administrator.

You will be asked for a password. In Linux, when you type a password, the screen does not echo your keystrokes, nor indicate in any way that you are typing a password.

# Type **sudo apt-get install nano**

This will install a new text editor called “nano.” Nano is an excellent editor designed to simplify programming

Test nano by creating the file hello.c

# Type **nano hello.c**

Create a simple hello.c program and, when finished, type Ctrl -x (the control key plus x)

Note that, because you used the .c extension, nano assumes you are programming in c.

### **Assignment**

Read *Installing Software*, Community Ubuntu Documentation,  
« <https://help.ubuntu.com/community/InstallingSoftware> »

Answer the following:

- In your own words, what is a package?
- Is it ok to install a downloaded package? If so, how is it accomplished?
- How can you list all recently installed packages?
- How can you keep all packages up to date?
- Install Apache server package using apt package manager