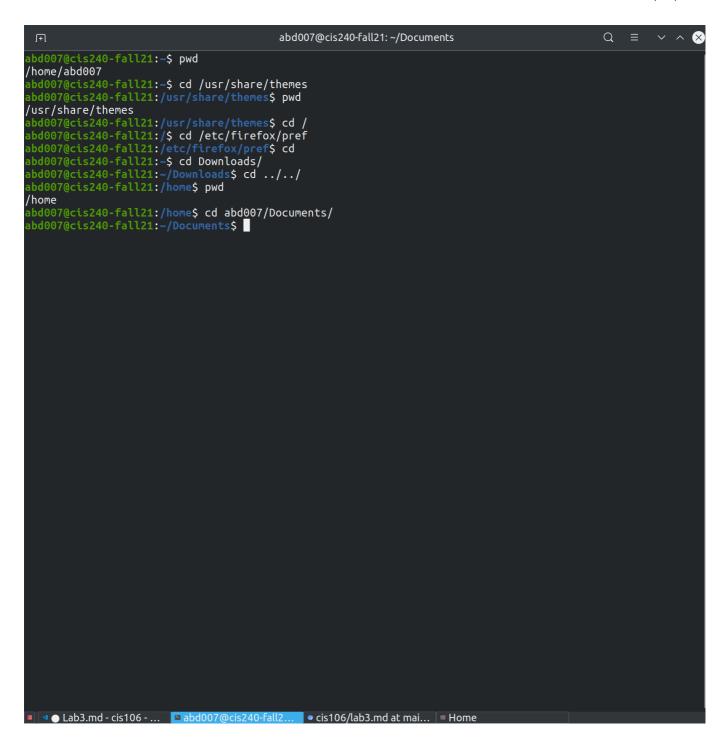# Lab 3 | Installing software and navigating the file system | Answers

Assignment description here

Question 1

1. Which command did you use to search for the themes and to install theme? Ans: to search: apt search 'gtk theme' to install: sudo apt install breeze-gtk-theme

2. Which commands did you use to find and install the web browser? Ans: to find: apt search web browser to install: sudo apt install doc-central

3.1 What is the name of the package? Ans: doc-central

3.2 What dependencies are needed in order to install the package? (you can either take a screenshot of the terminal or copy and paste from the terminal) Ans: apache2 | httpd-cgi, doc-base (>= 0.8.10), info2www, python3, python3-debian, sensible-utils

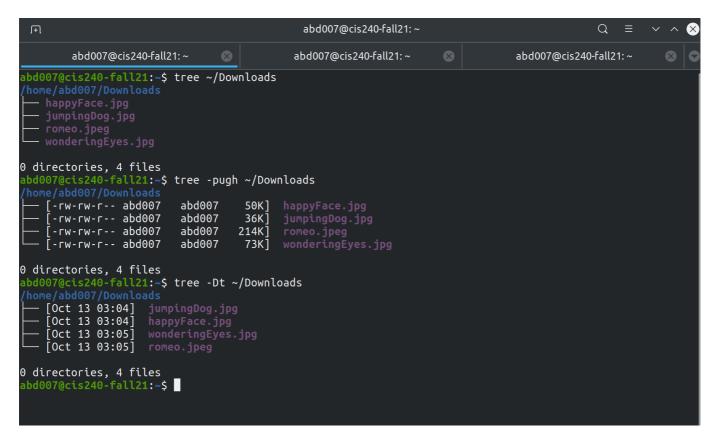3.3 How much disk space will the package utilize after installation? Ans: 63.5 kb

Question 2

```
abd007@cis240-fall21:~$ pwd
/home/abd007
abd007@cis240-fall21:~$ cd /usr/share/themes
abd007@cis240-fall21:/usr/share/themes$ pwd
/usr/share/themes
abd007@cis240-fall21:/usr/share/themes$ cd /
abd007@cis240-fall21:/$ cd /etc/firefox/pref
abd007@cis240-fall21:/etc/firefox/pref$ cd
abd007@cis240-fall21:~$ cd Downloads/
abd007@cis240-fall21:~/Downloads$ cd ../../
abd007@cis240-fall21:/home$ pwd
/home
abd007@cis240-fall21:/home$ cd abd007/Documents/
abd007@cis240-fall21:~/Documents$
```

Question 3

```
abd007@cis240-fall21:~$ pwd
/home/abd007
abd007@cis240-fall21:~$ ls Downloads/
happyFace.jpg  jumpingDog.jpg  romeo.jpeg  wonderingEyes.jpg
abd007@cis240-fall21:~$ ls -a Downloads/
.  ..  happyFace.jpg  jumpingDog.jpg  romeo.jpeg  wonderingEyes.jpg
abd007@cis240-fall21:~$
abd007@cis240-fall21:~$
abd007@cis240-fall21:~$
abd007@cis240-fall21:~$ ls -al Downloads/
total 392
drwxr-xr-x  2 abd007 abd007   4096 Oct 13 03:05 .
drwxr-xr-x 20 abd007 abd007   4096 Oct 12 16:29 ..
-rw-rw-r--  1 abd007 abd007  51251 Oct 13 03:04 happyFace.jpg
-rw-rw-r--  1 abd007 abd007  37204 Oct 13 03:04 jumpingDog.jpg
-rw-rw-r--  1 abd007 abd007 219423 Oct 13 03:05 romeo.jpeg
-rw-rw-r--  1 abd007 abd007  74504 Oct 13 03:05 wonderingEyes.jpg
abd007@cis240-fall21:~$ ls -alh Downloads/
total 392K
drwxr-xr-x  2 abd007 abd007 4.0K Oct 13 03:05 .
drwxr-xr-x 20 abd007 abd007 4.0K Oct 12 16:29 ..
-rw-rw-r--  1 abd007 abd007  51K Oct 13 03:04 happyFace.jpg
-rw-rw-r--  1 abd007 abd007  37K Oct 13 03:04 jumpingDog.jpg
-rw-rw-r--  1 abd007 abd007 215K Oct 13 03:05 romeo.jpeg
-rw-rw-r--  1 abd007 abd007  73K Oct 13 03:05 wonderingEyes.jpg
abd007@cis240-fall21:~$ ls -Glh Downloads/
total 384K
-rw-rw-r-- 1 abd007  51K Oct 13 03:04 happyFace.jpg
-rw-rw-r-- 1 abd007  37K Oct 13 03:04 jumpingDog.jpg
-rw-rw-r-- 1 abd007 215K Oct 13 03:05 romeo.jpeg
-rw-rw-r-- 1 abd007  73K Oct 13 03:05 wonderingEyes.jpg
abd007@cis240-fall21:~$
```

Question 4

```
abd007@cis240-fall21:~$ tree ~/Downloads
/home/abd007/Downloads
├── happyFace.jpg
├── jumpingDog.jpg
├── romeo.jpeg
└── wonderingEyes.jpg

0 directories, 4 files
abd007@cis240-fall21:~$ tree -pugh ~/Downloads
/home/abd007/Downloads
├── [-rw-rw-r-- abd007    abd007     50K]  happyFace.jpg
├── [-rw-rw-r-- abd007    abd007     36K]  jumpingDog.jpg
├── [-rw-rw-r-- abd007    abd007    214K]  romeo.jpeg
└── [-rw-rw-r-- abd007    abd007     73K]  wonderingEyes.jpg

0 directories, 4 files
abd007@cis240-fall21:~$ tree -Dt ~/Downloads
/home/abd007/Downloads
├── [Oct 13 03:04]  jumpingDog.jpg
├── [Oct 13 03:04]  happyFace.jpg
├── [Oct 13 03:05]  wonderingEyes.jpg
└── [Oct 13 03:05]  romeo.jpeg

0 directories, 4 files
abd007@cis240-fall21:~$
```

```
abd007@cis240-fall21:~$ tree -H Downloads/
<!DOCTYPE html>
<html>
<head>
 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
 <meta name="Author" content="Made by 'tree'">
 <meta name="GENERATOR" content="$Version: $ tree v1.8.0 (c) 1996 - 2018 by Steve Baker, Thomas Moore, Fr
ancesc Rocher, Florian Sesser, Kyosuke Tokoro $">
 <title>Directory Tree</title>
 <style type="text/css">
  <!--
  BODY { font-family : ariel, monospace, sans-serif; }
  P { font-weight: normal; font-family : ariel, monospace, sans-serif; color: black; background-color: tr
ansparent;}
  B { font-weight: normal; color: black; background-color: transparent;}
  A:visited { font-weight : normal; text-decoration : none; background-color : transparent; margin : 0px
0px 0px 0px; padding : 0px 0px 0px 0px; display: inline; }
  A:link    { font-weight : normal; text-decoration : none; margin : 0px 0px 0px 0px; padding : 0px 0px 0
px 0px; display: inline; }
  A:hover   { color : #000000; font-weight : normal; text-decoration : underline; background-color : yell
ow; margin : 0px 0px 0px 0px; padding : 0px 0px 0px 0px; display: inline; }
  A:active  { color : #000000; font-weight: normal; background-color : transparent; margin : 0px 0px 0px
0px; padding : 0px 0px 0px 0px; display: inline; }
  .VERSION { font-size: small; font-family : arial, sans-serif; }
  .NORM  { color: black;  background-color: transparent;}
  .FIFO  { color: purple; background-color: transparent;}
  .CHAR  { color: yellow; background-color: transparent;}
  .DIR   { color: blue;   background-color: transparent;}
  .BLOCK { color: yellow; background-color: transparent;}
  .LINK  { color: aqua;   background-color: transparent;}
  .SOCK  { color: fuchsia;background-color: transparent;}
  .EXEC  { color: green;  background-color: transparent;}
  -->
 </style>
</head>
```

```
              ⊞                          abd007@cis240-fall21: ~                   🔍  ≡  ⌄  ⌃  ⊗

            abd007@cis240-fall21: ~      ⊗        abd007@cis240-fall21: ~      ⊗        abd007@cis240-fall21: ~    ⊗  ⌄

    abd007@cis240-fall21:~$ tree -Ho Downloads/ website.html
    abd007@cis240-fall21:~$ ls
    cis106  Desktop  Documents  Downloads  Music  Pictures  Public  snap  Templates  Videos  website.html
    abd007@cis240-fall21:~$ xdg-open website.html
    abd007@cis240-fall21:~$ ▮
```

Question 5

```
              ⊞                          abd007@cis240-fall21: ~                   🔍  ≡  ⌄  ⌃  ⊗

            abd007@cis240-fall21: ~      ⊗        abd007@cis240-fall21: ~      ⊗        abd007@cis240-fall21: ~    ⊗  ⌄

    Connecting to archive.ubuntu.com (archive.ubuntu.com)|91.189.88.152|:80... connected.
    HTTP request sent, awaiting response... 200 OK
    Length: 301592 (295K) [application/x-debian-package]
    Saving to: 'exa_0.9.0-4_amd64.deb'

    exa_0.9.0-4_amd64.deb        100%[===================================>] 294.52K   617KB/s    in 0.5s

    2021-10-13 04:46:59 (617 KB/s) - 'exa_0.9.0-4_amd64.deb' saved [301592/301592]

    abd007@cis240-fall21:~$ ls
    cis106    Documents  exa_0.9.0-4_amd64.deb  Pictures  snap       Videos
    Desktop   Downloads  Music                  Public    Templates  website.html
    abd007@cis240-fall21:~$ suto apt install ./exa_0.9.0-4_amd64.deb

    Command 'suto' not found, did you mean:

      command 'uuto' from deb uucp (1.07-27build1)
      command 'sumo' from deb sumo (1.4.0+dfsg1-1)
      command 'sudo' from deb sudo (1.8.31-1ubuntu1.2)
      command 'sudo' from deb sudo-ldap (1.8.31-1ubuntu1.2)

    Try: sudo apt install <deb name>

    abd007@cis240-fall21:~$ sudo apt install ./exa_0.9.0-4_amd64.deb
    [sudo] password for abd007:
    Reading package lists... Done
    Building dependency tree
    Reading state information... Done
    Note, selecting 'exa' instead of './exa_0.9.0-4_amd64.deb'
    The following packages were automatically installed and are no longer required:
      apport-symptoms guile-2.2-libs libevent-2.1-7 libgc1c2 libgnome-games-support-1-3
      libgnome-games-support-common libnatpmp1 libqqwing2v5 python3-systemd
    Use 'sudo apt autoremove' to remove them.
    The following NEW packages will be installed:
      exa
    0 upgraded, 1 newly installed, 0 to remove and 4 not upgraded.
    Need to get 0 B/302 kB of archives.
    After this operation, 890 kB of additional disk space will be used.
    Get:1 /home/abd007/exa_0.9.0-4_amd64.deb exa amd64 0.9.0-4 [302 kB]
    Selecting previously unselected package exa.
    (Reading database ... 222325 files and directories currently installed.)
    Preparing to unpack .../abd007/exa_0.9.0-4_amd64.deb ...
    Unpacking exa (0.9.0-4) ...
    Setting up exa (0.9.0-4) ...
    Processing triggers for man-db (2.9.1-1) ...
    abd007@cis240-fall21:~$ rm exa_0.9.0-4_amd64.deb
    abd007@cis240-fall21:~$ ls
    cis106  Desktop  Documents  Downloads  Music  Pictures  Public  snap  Templates  Videos  website.html
    abd007@cis240-fall21:~$ ▯
```