

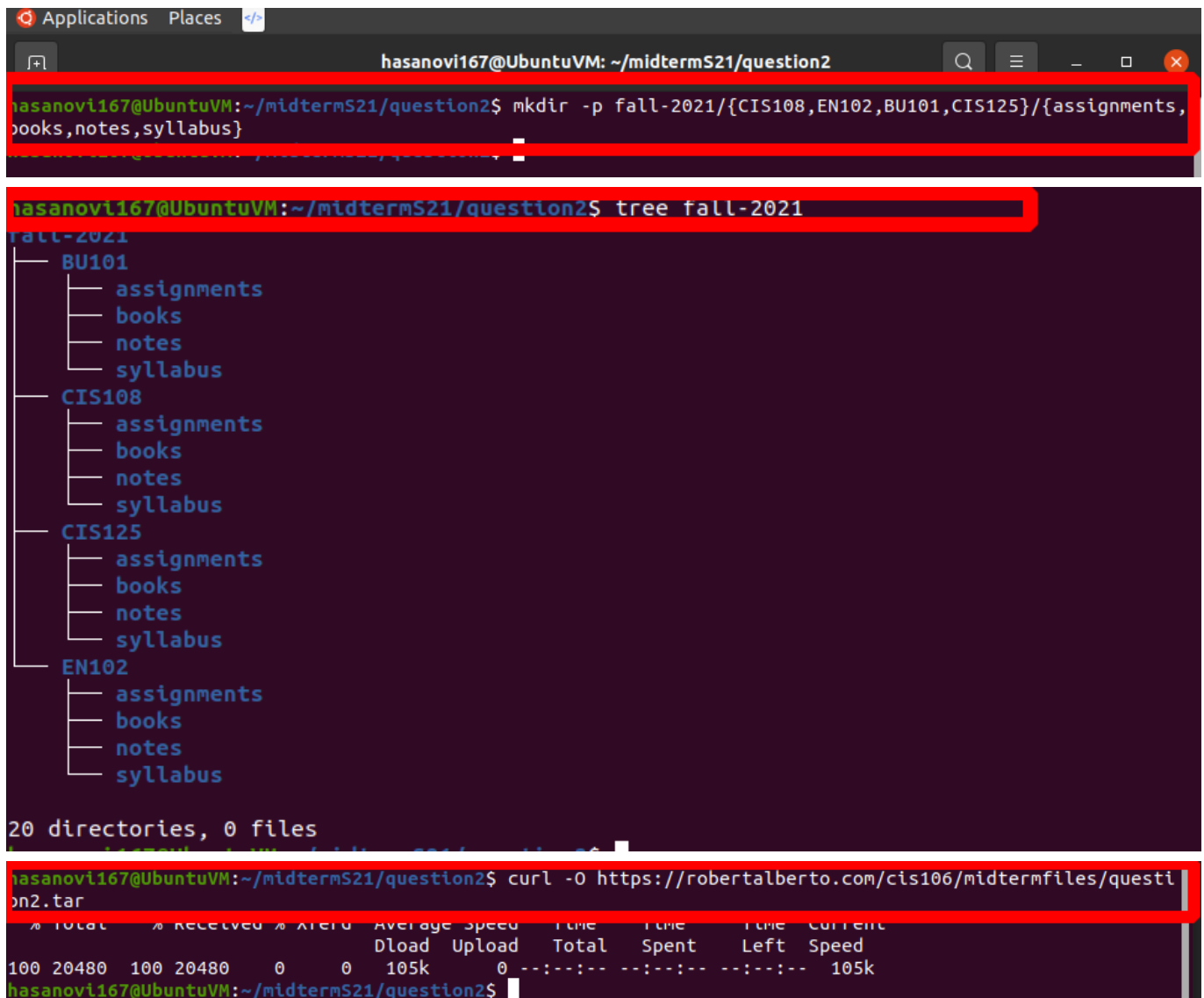
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- Semester: **Spring 2021**


Midterm Spring 2021

Question 1

In my opinion it is a better idea to migrate the lab into Ubuntu instead of upgrading to new computers. There are many benefits of using Ubuntu. Some of the benefits of Ubuntu are: it is free to use and can be installed on any computer, Ubuntu is fully customizable and easy to modify, also Ubuntu's command line is easy to use and more secure, plus Ubuntu is open source. By switching to Ubuntu they should be able to browse the Internet, edit, teach, and run many applications and programs without any issues. So moving to Ubuntu is much better than buying new computers and Windows10 licenses.

Question 2



```
Applications Places 
hasanovi167@UbuntuVM: ~/midtermS21/question2
hasanovi167@UbuntuVM:~/midtermS21/question2$ mkdir -p fall-2021/{CIS108,EN102,BU101,CIS125}/{assignments,books,notes,syllabus}
hasanovi167@UbuntuVM:~/midtermS21/question2$ tree fall-2021
fall-2021
├── BU101
│   ├── assignments
│   ├── books
│   ├── notes
│   └── syllabus
├── CIS108
│   ├── assignments
│   ├── books
│   ├── notes
│   └── syllabus
├── CIS125
│   ├── assignments
│   ├── books
│   ├── notes
│   └── syllabus
└── EN102
    ├── assignments
    ├── books
    ├── notes
    └── syllabus

20 directories, 0 files
hasanovi167@UbuntuVM:~/midtermS21/question2$ curl -O https://robertalberto.com/cis106/midtermfiles/question2.tar
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 20480 100 20480 0 0 105k 0 --:--:-- --:--:-- --:--:-- 105k
hasanovi167@UbuntuVM:~/midtermS21/question2$
```

```
hasanovi167@UbuntuVM:~/midtermS21/question2$ cpio -iv < question2.tar
question2/
question2/cis108_all_assignments.txt
question2/cis108notes.md
question2/cis125book.pdf
question2/cis125notes.md
question2/en102syllabus.docx
question2/cis125syllabus.docx
question2/bu101book.pdf
question2/bu101syllabus.docx
question2/cis108syllabus.docx
question2/bu101notes.md
question2/en102_all_assignments.txt
question2/cis108book.pdf
question2/cis125_all_assignments.txt
question2/bu101_all_assignments.txt
question2/en102book.pdf
question2/en102notes.md

hasanovi167@UbuntuVM:~/midtermS21/question2$ mv question2/b?1*.docx fall-2021/BU101/syllabus
hasanovi167@UbuntuVM:~/midtermS21/question2$ mv question2/b?1*.md fall-2021/BU101/notes
hasanovi167@UbuntuVM:~/midtermS21/question2$ mv question2/b?1*.pdf fall-2021/BU101/books
hasanovi167@UbuntuVM:~/midtermS21/question2$ mv question2/b?1*.txt fall-2021/BU101/assignments
hasanovi167@UbuntuVM:~/midtermS21/question2$ mv question2/c?s*1?5*.docx fall-2021/CIS125/syllabus
hasanovi167@UbuntuVM:~/midtermS21/question2$ mv question2/c?s*1?5*.md fall-2021/CIS125/notes
hasanovi167@UbuntuVM:~/midtermS21/question2$ mv question2/c?s*1?5*.pdf fall-2021/CIS125/books
hasanovi167@UbuntuVM:~/midtermS21/question2$ mv question2/c?s*1?5*.txt fall-2021/CIS125/assignments
hasanovi167@UbuntuVM:~/midtermS21/question2$ mv question2/e?1*.docx fall-2021/EN102/syllabus
hasanovi167@UbuntuVM:~/midtermS21/question2$ mv question2/e?1*.md fall-2021/EN102/notes
hasanovi167@UbuntuVM:~/midtermS21/question2$ mv question2/e?1*.pdf fall-2021/EN102/books
hasanovi167@UbuntuVM:~/midtermS21/question2$ mv question2/e?1*.txt fall-2021/EN102/assignments
hasanovi167@UbuntuVM:~/midtermS21/question2$ mv question2/c?s*1?8*.docx fall-2021/CIS108/syllabus
hasanovi167@UbuntuVM:~/midtermS21/question2$ mv question2/c?s*1?8*.md fall-2021/CIS108/notes
hasanovi167@UbuntuVM:~/midtermS21/question2$ mv question2/c?s*1?8*.pdf fall-2021/CIS108/books
hasanovi167@UbuntuVM:~/midtermS21/question2$ mv question2/c?s*1?8*.txt fall-2021/CIS108/assignments
hasanovi167@UbuntuVM:~/midtermS21/question2$
```

```
hasanovi167@UbuntuVM:~/midtermS21/question2$ tree -ph fall-2021
```

```
tree
├── [drwxrwxr-x 4.0K] BU101
│   ├── [drwxrwxr-x 4.0K] assignments
│   │   └── [-rw-rw-r-- 106] bu101_all_assignments.txt
│   ├── [drwxrwxr-x 4.0K] books
│   │   └── [-rw-rw-r-- 88] bu101book.pdf
│   ├── [drwxrwxr-x 4.0K] notes
│   │   └── [-rw-rw-r-- 104] bu101notes.md
│   └── [drwxrwxr-x 4.0K] syllabus
│       └── [-rw-rw-r-- 71] bu101syllabus.docx
├── [drwxrwxr-x 4.0K] CIS108
│   ├── [drwxrwxr-x 4.0K] assignments
│   │   └── [-rw-rw-r-- 56] cis108_all_assignments.txt
│   ├── [drwxrwxr-x 4.0K] books
│   │   └── [-rw-rw-r-- 101] cis108book.pdf
│   ├── [drwxrwxr-x 4.0K] notes
│   │   └── [-rw-rw-r-- 52] cis108notes.md
│   └── [drwxrwxr-x 4.0K] syllabus
│       └── [-rw-rw-r-- 70] cis108syllabus.docx
├── [drwxrwxr-x 4.0K] CIS125
│   ├── [drwxrwxr-x 4.0K] assignments
│   │   └── [-rw-rw-r-- 59] cis125_all_assignments.txt
│   ├── [drwxrwxr-x 4.0K] books
│   │   └── [-rw-rw-r-- 90] cis125book.pdf
│   ├── [drwxrwxr-x 4.0K] notes
│   │   └── [-rw-rw-r-- 86] cis125notes.md
│   └── [drwxrwxr-x 4.0K] syllabus
│       └── [-rw-rw-r-- 79] cis125syllabus.docx
└── [drwxrwxr-x 4.0K] EN102
    ├── [drwxrwxr-x 4.0K] assignments
    │   └── [-rw-rw-r-- 45] en102_all_assignments.txt
    ├── [drwxrwxr-x 4.0K] books
    │   └── [-rw-rw-r-- 142] en102book.pdf
    ├── [drwxrwxr-x 4.0K] notes
    │   └── [-rw-rw-r-- 69] en102notes.md
    └── [drwxrwxr-x 4.0K] syllabus
        └── [-rw-rw-r-- 85] en102syllabus.docx
```

20 directories, 16 files

```
hasanovi167@UbuntuVM:~/midtermS21/question2$
```

Question 3

```
hasanovi167@UbuntuVM: ~/midtermS21/question3$ mkdir -p carCompany/{sql,html,css,js}
hasanovi167@UbuntuVM: ~/midtermS21/question3$ touch carCompany/sql/{script1.sql,script2.sql}
hasanovi167@UbuntuVM: ~/midtermS21/question3$ touch carCompany/html/{home.html,contac.html,products.html}
hasanovi167@UbuntuVM: ~/midtermS21/question3$ touch carCompany/css/{base.css,reset.css}
hasanovi167@UbuntuVM: ~/midtermS21/question3$ touch carCompany/js/{slide.js,loader.js,script.js}
```

```
hasanovi167@UbuntuVM: ~/midtermS21/question3$ ls --color=auto -Rshr carCompany - Parrot Terminal
[hasanovi167@UbuntuVM]--[~/midtermS21/question3]
$ls -Rshr carCompany
carCompany:
total 16K
4.0K sql  4.0K js  4.0K html  4.0K css

carCompany/sql:
total 0
0 script2.sql  0 script1.sql

carCompany/js:
total 0
0 slide.js  0 script.js  0 loader.js

carCompany/html:
total 0
0 products.html  0 home.html  0 contac.html

carCompany/css:
total 0
0 reset.css  0 base.css
[hasanovi167@UbuntuVM]--[~/midtermS21/question3]
$
```

```
[hasanovi167@UbuntuVM]--[~/midtermS21/question3]
$tar -czvf carCompany.tar.gz carCompany

carCompany/html/
carCompany/html/products.html
carCompany/html/contac.html
carCompany/html/home.html
carCompany/js/
carCompany/js/loader.js
carCompany/js/script.js
carCompany/js/slide.js
carCompany/sql/
carCompany/sql/script1.sql
carCompany/sql/script2.sql
carCompany/css/
carCompany/css/reset.css
carCompany/css/base.css
[hasanovi167@UbuntuVM]--[~/midtermS21/question3]
$
```

```
[hasanovi167@UbuntuVM]--[~/midtermS21/question3]
$mv carCompany.tar.gz ~/Documents

[hasanovi167@UbuntuVM]--[~/midtermS21/question3]
$rm -r carCompany
[hasanovi167@UbuntuVM]--[~/midtermS21/question3]
```

Question 4

```

[hasanovi167@UbuntuVM]~/midtermS21/question4
$ curl -O https://robertalberto.com/cis106/midtermfiles/maria-college-files.tar.xz
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left  Speed
100 26.0M  100 26.0M    0     0  21.2M      0  0:00:01  0:00:01 --:--:-- 21.2M
[hasanovi167@UbuntuVM]~/midtermS21/question4
$ tar -xf maria-college-files.tar.xz
[hasanovi167@UbuntuVM]~/midtermS21/question4
$ rm -r maria-college-files.tar.xz
[hasanovi167@UbuntuVM]~/midtermS21/question4
$ ls
maria-college-files
[hasanovi167@UbuntuVM]~/midtermS21/question4
$

```

```

[hasanovi167@UbuntuVM]~/midtermS21/question4
$ curl -O https://robertalberto.com/cis106/midtermfiles/maria-college-files.tar.xz
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left  Speed
100 26.0M  100 26.0M    0     0  15.1M      0  0:00:01  0:00:01 --:--:-- 15.1M
[hasanovi167@UbuntuVM]~/midtermS21/question4
$ tar -xf maria-college-files.tar.xz
[hasanovi167@UbuntuVM]~/midtermS21/question4
$ rm -r maria-college-files.tar.xz
[hasanovi167@UbuntuVM]~/midtermS21/question4
$ ls
maria-college-files
[hasanovi167@UbuntuVM]~/midtermS21/question4
$

```

```

[hasanovi167@UbuntuVM]~/midtermS21/question4
$ touch all-files-org.md
[hasanovi167@UbuntuVM]~/midtermS21/question4
$ ls -lh maria-college-files >> all-files-org.md
[hasanovi167@UbuntuVM]~/midtermS21/question4
$ ls -lh
-rw-rw-r-- 1 hasanovi167 hasanovi167 1.8K May  1 19:22 all-files-org.md
drwxr-xr-x 2 hasanovi167 hasanovi167 4.0K May  1 19:22 maria-college-files
[hasanovi167@UbuntuVM]~/midtermS21/question4
$ cat all-files-org.md
-rw-rw-r-- 1 hasanovi167 hasanovi167 109 Apr 21 16:54 calculator.exe
-rw-rw-r-- 1 hasanovi167 hasanovi167 62 Apr 21 16:53 code.pdf
-rw-rw-r-- 1 hasanovi167 hasanovi167 50 Apr 21 16:52 communication.docx
-rw-rw-r-- 1 hasanovi167 hasanovi167 70 Apr 21 16:53 documentation.pdf
-rw-rw-r-- 1 hasanovi167 hasanovi167 123 Apr 21 16:52 email.docx
-rw-rw-r-- 1 hasanovi167 hasanovi167 79 Apr 21 16:51 expenses.xls
-rw-rw-r-- 1 hasanovi167 hasanovi167 141K Apr 21 16:50 galaxy.jpg
-rw-rw-r-- 1 hasanovi167 hasanovi167 98 Apr 21 16:54 game.exe
-rw-rw-r-- 1 hasanovi167 hasanovi167 41 Apr 21 16:52 grades.xls
-rw-rw-r-- 1 hasanovi167 hasanovi167 140K Apr 21 16:50 iphone.jpg
-rw-rw-r-- 1 hasanovi167 hasanovi167 13 Apr 21 17:11 laundry.txt
-rw-rw-r-- 1 hasanovi167 hasanovi167 13 Apr 21 17:11 mealplan.txt
-rw-rw-r-- 1 hasanovi167 hasanovi167 140K Apr 21 16:50 motog.jpg
-rw-rw-r-- 1 hasanovi167 hasanovi167 241K Apr 21 16:50 panama.png
-rw-rw-r-- 1 hasanovi167 hasanovi167 49K Apr 21 01:20 pccc-aasprogram.pdf
-rw-rw-r-- 1 hasanovi167 hasanovi167 9.0K Dec 13 2019 pccc-logo.png
-rw-rw-r-- 1 hasanovi167 hasanovi167 110 Apr 21 16:54 program.exe
-rw-rw-r-- 1 hasanovi167 hasanovi167 241K Apr 21 16:49 puertorico.png
-rw-rw-r-- 1 hasanovi167 hasanovi167 26M Sep 13 2020 pyramid.docx
-rw-rw-r-- 1 hasanovi167 hasanovi167 14 Apr 21 17:11 shoppinglist.txt
-rw-rw-r-- 1 hasanovi167 hasanovi167 27 Apr 21 17:10 site.html
-rw-rw-r-- 1 hasanovi167 hasanovi167 8.5K Jul  9 2020 spreadsheets.xls
-rw-rw-r-- 1 hasanovi167 hasanovi167 46 Apr 21 16:52 students.xls
-rw-rw-r-- 1 hasanovi167 hasanovi167 241K Apr 21 16:49 venezuela.png
-rw-rw-r-- 1 hasanovi167 hasanovi167 27 Apr 21 17:10 videos.html
-rw-rw-r-- 1 hasanovi167 hasanovi167 27 Apr 21 17:10 wiki.html
[hasanovi167@UbuntuVM]~/midtermS21/question4
$

```

```
hasanovi167@UbuntuVM:~/midtermS21/question4
$mkdir images documents programs spreadsheets texts
hasanovi167@UbuntuVM:~/midtermS21/question4

mv: cannot stat '*.exe': No such file or directory
[~]-[hasanovi167@UbuntuVM:~/midtermS21/question4]
$mv maria-colleage-files/*.exe programs
hasanovi167@UbuntuVM:~/midtermS21/question4
$mv maria-colleage-files/*.html text
mv: target 'text' is not a directory
[~]-[hasanovi167@UbuntuVM:~/midtermS21/question4]
$mv maria-colleage-files/*.html texts
hasanovi167@UbuntuVM:~/midtermS21/question4
$mv maria-colleage-files/*.xls spreadsheets
hasanovi167@UbuntuVM:~/midtermS21/question4
$mv maria-colleage-files/*.png images
hasanovi167@UbuntuVM:~/midtermS21/question4
$mv maria-colleage-files/*.txt texts
hasanovi167@UbuntuVM:~/midtermS21/question4
$mv maria-colleage-files/*.docx documents
hasanovi167@UbuntuVM:~/midtermS21/question4
$mv maria-colleage-files/*.pdf documents
hasanovi167@UbuntuVM:~/midtermS21/question4
$mv maria-colleage-files/*.jpg images
hasanovi167@UbuntuVM:~/midtermS21/question4
$tree
```

```
$tree
all-files-org.md
documents
├── code.pdf
├── communication.docx
├── documentation.pdf
├── email.docx
├── pccc-aasprogram.pdf
└── pyramid.docx
images
├── galaxy.jpg
├── iphone.jpg
├── motog.jpg
├── panama.png
├── pccc-logo.png
├── puertorico.png
└── venezuela.png
maria-colleage-files
programs
├── calculator.exe
├── game.exe
└── program.exe
spreadsheets
├── expenses.xls
├── grades.xls
├── spreadsheets.xls
└── students.xls
texts
├── laundry.txt
├── mealplan.txt
├── shoppinglist.txt
├── site.html
├── videos.html
└── wiki.html

6 directories, 27 files
hasanovi167@UbuntuVM:~/midtermS21/question4
$
hasanovi167@UbuntuVM:~/midtermS21/question4
$tree >> all-files-org.md
hasanovi167@UbuntuVM:~/midtermS21/question4
```

```

[hasanovi167@UbuntuVM]~[/midtermS21/question4]
- $tar -cf allDirectories.tar documents images programs spreadsheets texts
[hasanovi167@UbuntuVM]~[/midtermS21/question4]
[hasanovi167@UbuntuVM]~[/midtermS21/question4]
- $gzip allDirectories.tar
[hasanovi167@UbuntuVM]~[/midtermS21/question4]
- $ls -lh allDirectories.tar.gz all-files-org.md
-rw-rw-r-- 1 hasanovi167 hasanovi167 27M May 1 21:10 allDirectories.tar.gz
-rw-rw-r-- 1 hasanovi167 hasanovi167 3.7K May 1 21:04 all-files-org.md
[hasanovi167@UbuntuVM]~[/midtermS21/question4]
- $

```

Question 5

```

[hasanovi167@UbuntuVM]~[/midtermS21/question5]
- $curl -O https://robertalberto.com/cis106/midtermfiles/samplesite2.tar.gz
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
   00  1173k    100  1173k    0     0  2856k      0  --:--:-- --:--:-- --:--:--  2849k

```

```

1114 cd midtermS21
1115 cd question5
1116 ls
1117 tar -xf samplesite2.tar.gz
1118 ls
1119 mv bg-masthead.jpg index.html
1120 mv fullsize/1.jpg index.html
1121 mv fullsize/1.jpg ~/midtermS21/question5/index.html
1122 clear
1123 ls
1124 cd
1125 cd /var/www/html
1126 ls
1127 rm -r /var/www/html
1128 sudo rm -r /var/www/html
1129 ls
1130 clear
1131 cd
1132 cd midtermS21
1133 cd question5
1134 sudo systemctl status apache2
1135 sudo systemctl status apache2
1136 cd /var/www/
1137 ls -la
1138 clear
1139 ls
1140 ls -a
1141 clear
1142 cd /home/hasanovi167/Downloads/
1143 ls
1144 clear
1145 cd ..
1146 cd midtermS21/question5/
1147 ls
1148 cd samplesite2/
1149 ls
1150 cd /var/www/html
1151 sudo mkdir -p /var/www/html

```



```
1152 ls
1153 mv * /var/www/html/
1154 sudo mv * /var/www/html/
1155 clear
1156 cd /var/www/html/
1157 ls
1158 cd /etc/apache2/sites-enabled/
1159 ls
1160 vim 000-default.conf
1161 sudo systemctl restart apache2
1162 cd /var/www/html/
1163 ls
1164 ls -la
1165 ls
1166 mkdir js
1167 sudo mkdir js
1168 mv scripts.js ./js/
1169 sudo mv scripts.js ./js/
1170 clear
1171 sudo systemctl restart apache2
1172 ls
1173 cd thumbnails/
1174 ls
1175 clear
1176 cd ..
1177 ls
1178 sudo mkdir assets
1179 sudo mv thumbnails/ assets/
1180 cd assets/
1181 ls
1182 sudo mkdir -p img/portfolio
1183 ls
1184 mv thumbnails/ img/portfolio/
1185 sudo mv thumbnails/ img/portfolio/
1186 ls -l
1187 cd ..
1188 kls
1189 ls
1190 clear
1191 ls

1192 cd html/
1193 ls
1194 cd assets/
1195 ls
1196 cd img/
1197 ls
1198 cd portfolio/
1199 ls
1200 cd thumbnails/
1201 ls
1202 cd /var/www/html/
1203 ls -l
1204 sudo chown -R apache:apache ./
1205 sudo chown -R www:www ./
1206 ps -aux | grep apache2
1207 sudo chown -R www-data:www-data ./
1208 sudo systemctl restart apache2
1209 cls
1210 ls
1211 sudo mkdir css
1212 sudo mv styles.css ./css/
1213 sudo mv favicon.ico assets/img/
1214 sudo chown www-data:www-data assets/img/favicon.ico
1215 cd assets/img/
1216 ls
1217 ls -l
1218 chmod 777 www-data favicon.ico
1219 chmod 777 favicon.ico
1220 sudo chmod 777 favicon.ico
1221 pwd
1222 ls
1223 cat favicon.ico
1224 clear
1225 ls -l
1226 history
```



```
[~]-[hasanovi167@UbuntuVM]-[~/midtermS21/question5]
$ sudo apt install apache2
[sudo] password for hasanovi167:
Reading package lists... Done
Building dependency tree
Reading state information... Done
apache2 is already the newest version (2.4.41-4ubuntu3.1).
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 linux-headers-5.8.0-44-generic
  linux-hwe-5.8-headers-5.8.0-44 linux-image-5.8.0-44-generic linux-modules-5.8.0-44-generic
  linux-modules-extra-5.8.0-44-generic python3-systemd
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 100 not upgraded.
[hasanovi167@UbuntuVM]-[~/midtermS21/question5]
$ cd
[hasanovi167@UbuntuVM]-[~]
$ cd /var/www/html/
[hasanovi167@UbuntuVM]-[/var/www/html]
$ mv index.html index.html.bk
mv: cannot move 'index.html' to 'index.html.bk': Permission denied
[~]-[hasanovi167@UbuntuVM]-[/var/www/html]
$ sudo mv index.html index.html.bk
[hasanovi167@UbuntuVM]-[/var/www/html]
$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable apache2
[hasanovi167@UbuntuVM]-[/var/www/html]
$ sudo systemctl restart apache2
[hasanovi167@UbuntuVM]-[/var/www/html]
$
```

Start Bootstrap

YOUR FAVORITE SOURCE OF FREE BOOTSTRAP THEMES

Start Bootstrap can help you build better websites using the Bootstrap framework! Just download a theme and start customizing, no strings attached!

FIND OUT MORE

We've got what you need!

Start Bootstrap has everything you need to get your new website up and running in no time.

Question 6

```
[hasanovi167@UbuntuVM]~[/midtermS21/question6]
$ls -sh /etc/passwd /etc/group /etc/shadow ~/.bashrc
4.0K /etc/group 4.0K /etc/passwd 4.0K /etc/shadow 8.0K /home/hasanovi167/.bashrc
[hasanovi167@UbuntuVM]~[/midtermS21/question6]

[hasanovi167@UbuntuVM]~[/midtermS21/question6]
$ls -lh /usr/share/dict/american-english > sizes
[hasanovi167@UbuntuVM]~[/midtermS21/question6]
$cat sizes
-rw-r--r-- 1 root root 0 Apr 30 12:16 /usr/share/dict/american-english
[hasanovi167@UbuntuVM]~[/midtermS21/question6]
$

[hasanovi167@UbuntuVM]~[/midtermS21/question6]
$cat sizes
-rw-r--r-- 1 root root 0 Apr 30 12:16 /usr/share/dict/american-english
[hasanovi167@UbuntuVM]~[/midtermS21/question6]
```

Question 7

```
[hasanovi167@UbuntuVM]~[/midtermS21/question7]
$find ~/Downloads/pets.jpeg
/home/hasanovi167/Downloads/pets.jpeg
[hasanovi167@UbuntuVM]~[/midtermS21/question7]

[hasanovi167@UbuntuVM]~[/midtermS21/question7]
$stat ~/Downloads/pets.jpeg
File: /home/hasanovi167/Downloads/pets.jpeg
Size: 5398      Blocks: 16      IO Block: 4096   regular file
Device: 805h/2053d Inode: 1590789  Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/hasanovi167)  Gid: ( 1000/hasanovi167)
Access: 2021-04-30 08:01:06.388719506 -0400
Modify: 2021-04-30 08:01:02.488911368 -0400
Change: 2021-04-30 08:01:02.492911183 -0400
Birth: -
[hasanovi167@UbuntuVM]~[/midtermS21/question7]
$
```

```
[hasanovi167@UbuntuVM]--[~/midtermS21/question7]
→ $sudo mv ~/Downloads/pets.jpeg /usr/share/backgrounds/new-dogs.jpeg
[udo] password for hasanovi167:
[hasanovi167@UbuntuVM]--[~/midtermS21/question7]
→ $
```

```
[hasanovi167@UbuntuVM]--[~/midtermS21/question7]
→ $stat /usr/share/backgrounds/new-dogs.jpeg
File: /usr/share/backgrounds/new-dogs.jpeg
Size: 5398      Blocks: 16      IO Block: 4096   regular file
Device: 805h/2053d    Inode: 1590789    Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/hasanovi167)   Gid: ( 1000/hasanovi167)
Access: 2021-04-30 08:01:06.388719506 -0400
Modify: 2021-04-30 08:01:02.488911368 -0400
Change: 2021-04-30 09:31:59.541433437 -0400
Birth: -
[hasanovi167@UbuntuVM]--[~/midtermS21/question7]
→ $
```

Question 8

```
[hasanovi167@UbuntuVM]--[~/midtermS21/question8]
→ $mkdir midterm-q8
[hasanovi167@UbuntuVM]--[~/midtermS21/question8]
→ $
```

```
[hasanovi167@UbuntuVM]--[~/midtermS21/question8/midterm-q8]
→ $tar -xf mcu.tar.xz
[hasanovi167@UbuntuVM]--[~/midtermS21/question8/midterm-q8]
→ $
```

```
[hasanovi167@UbuntuVM]--[~/midtermS21/question8/midterm-q8]
→ $ls -l
total 12
-rw-rw-r-- 1 hasanovi167 hasanovi167 4096 Apr 30 08:01 mcu.tar.xz
[hasanovi167@UbuntuVM]--[~/midtermS21/question8/midterm-q8]
→ $
```

```
[hasanovi167@UbuntuVM]~[~/midtermS21/question8/midterm-q8/marverl-movies]
$ls -lnshi | cut -f 6- -d ' '
1000 18K Apr 21 20:59 ant-man-and-the-wasp.jpeg
1000 19K Apr 21 20:58 ant-man.jpeg
1000 23K Apr 21 20:57 avengers-age-of-ultron.jpeg
1000 24K Apr 21 21:02 avengers-endgame.jpeg
1000 23K Apr 21 20:59 avengers-infinity-war.jpeg
1000 21K Apr 21 21:01 avengers.jpeg
1000 23K Apr 21 21:02 black-panther.jpeg
1000 21K Apr 21 21:01 captain-america-civil-war.jpeg
1000 18K Apr 21 20:58 captain-america-the-first-avenger.jpeg
1000 19K Apr 21 21:00 captain-america-the-winter-soldier.jpeg
1000 20K Apr 21 20:57 captain-marvel.jpeg
1000 24K Apr 21 20:59 doctor-strange.jpeg
1000 23K Apr 21 21:00 guardians-of-the-galaxy-vol-1.jpeg
1000 25K Apr 21 20:59 guardians-of-the-galaxy-vol-2.jpeg
1000 19K Apr 21 20:56 iron-man-2.jpeg
1000 21K Apr 21 20:57 iron-man-3.jpeg
1000 17K Apr 21 21:02 iron-man.jpeg
1000 20K Apr 21 21:00 spiderman-far-way-from-home.jpeg
1000 19K Apr 21 21:02 spiderman-homecoming.jpeg
1000 18K Apr 21 20:56 the-incredible-hulk.jpeg
1000 17K Apr 21 20:57 thor.jpeg
1000 26K Apr 21 21:02 thor-ragnarok.jpeg
1000 18K Apr 21 20:56 thor-the-dark-world.jpeg
[hasanovi167@UbuntuVM]~[~/midtermS21/question8/midterm-q8/marverl-movies]
$
```

```
[hasanovi167@UbuntuVM]~[~/midtermS21/question8/midterm-q8/marverl-movies]
$ls
ant-man-and-the-wasp.jpeg      guardians-of-the-galaxy-vol-1.jpeg
ant-man.jpeg                  guardians-of-the-galaxy-vol-2.jpeg
avengers-age-of-ultron.jpeg   iron-man-2.jpeg
avengers-endgame.jpeg         iron-man-3.jpeg
avengers-infinity-war.jpeg    iron-man.jpeg
avengers.jpeg                 spiderman-far-way-from-home.jpeg
black-panther.jpeg            spiderman-homecoming.jpeg
captain-america-civil-war.jpeg the-incredible-hulk.jpeg
captain-america-the-first-avenger.jpeg thor.jpeg
captain-america-the-winter-soldier.jpeg thor-ragnarok.jpeg
captain-marvel.jpeg           thor-the-dark-world.jpeg
```

```
[hasanovi167@UbuntuVM]~[~/midtermS21/question8/midterm-q8/marverl-movies]
$mkdir ant-man guardians-of-the-galaxy avengers iron-man spiderman captain-america black-panther cap
tain-marvel doctor-strange the-hulk thor
$ls -d */
ant-man/  black-panther/  captain-marvel/  guardians-of-the-galaxy/  spiderman/  thor/
```

```
[hasanovi167@UbuntuVM]~[~/midtermS21/question8/midterm-q8/marverl-movies]
$mv ant*.jpeg ant-man
[hasanovi167@UbuntuVM]~[~/midtermS21/question8/midterm-q8/marverl-movies]
$mv ave*.* avengers
[hasanovi167@UbuntuVM]~[~/midtermS21/question8/midterm-q8/marverl-movies]
$mv bla*.* black-panther
[hasanovi167@UbuntuVM]~[~/midtermS21/question8/midterm-q8/marverl-movies]
$mv *marvel.* captain-marvel
[hasanovi167@UbuntuVM]~[~/midtermS21/question8/midterm-q8/marverl-movies]
$mv thor*.* thor
[hasanovi167@UbuntuVM]~[~/midtermS21/question8/midterm-q8/marverl-movies]
$mv cap*.* captain-america
[hasanovi167@UbuntuVM]~[~/midtermS21/question8/midterm-q8/marverl-movies]
$mv iron*.* iron-man
[hasanovi167@UbuntuVM]~[~/midtermS21/question8/midterm-q8/marverl-movies]
$mv *hulk.* the-hulk
[hasanovi167@UbuntuVM]~[~/midtermS21/question8/midterm-q8/marverl-movies]
$mv doc*.* doctor-strange
[hasanovi167@UbuntuVM]~[~/midtermS21/question8/midterm-q8/marverl-movies]
$mv gua*.* guardians-of-the-galaxy
```

```

[hasanovi167@UbuntuVM]~/midtermS21/question8/midterm-q8/marverl-movies]
→ $mv spi.* spiderman
[hasanovi167@UbuntuVM]~/midtermS21/question8/midterm-q8/marverl-movies]
→ $ls captain-marvel ant-man black-panther captain-america iron-man the-hulk thor doctor-strange spide
rman guardians-of-the-galaxy
ant-man:
ant-man-and-the-wasp.jpeg ant-man.jpeg

black-panther:
black-panther.jpeg

captain-america:
captain-america-civil-war.jpeg captain-america-the-winter-soldier.jpeg
captain-america-the-first-avenger.jpeg

captain-marvel:
captain-marvel.jpeg

doctor-strange:
doctor-strange.jpeg

guardians-of-the-galaxy:
guardians-of-the-galaxy-vol-1.jpeg guardians-of-the-galaxy-vol-2.jpeg

iron-man:
iron-man-2.jpeg iron-man-3.jpeg iron-man.jpeg

spiderman:
spiderman-far-way-from-home.jpeg spiderman-homecoming.jpeg

the-hulk:
the-incredible-hulk.jpeg

thor:
thor.jpeg thor-ragnarok.jpeg thor-the-dark-world.jpeg
[hasanovi167@UbuntuVM]~/midtermS21/question8/midterm-q8/marverl-movies]
→ $

```

```

[hasanovi167@UbuntuVM]~/midtermS21/question8/midterm-q8/marverl-movies]
→ $ls -d */
ant-man/ black-panther/ captain-marvel/ guardians-of-the-galaxy/ spiderman/ thor/
avengers/ captain-america/ doctor-strange/ iron-man/ the-hulk/
[hasanovi167@UbuntuVM]~/midtermS21/question8/midterm-q8/marverl-movies]
→ $

```

Question 9

```

[hasanovi167@UbuntuVM]~/midtermS21/question9]
→ $mkdir midterm-q9
[hasanovi167@UbuntuVM]~/midtermS21/question9/midterm-q9]
→ $tar -xvf vgc.tar.xz -C ~/midtermS21/question9/midterm-q9
[hasanovi167@UbuntuVM]~/midtermS21/question9/midterm-q9]
→ $

```



```
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$ls *[[?8?-?99]]*
Nintendo-64-1996.jpeg PlayStation-1-1994.jpeg
nintendo-color-tv-game-1977-1980.jpeg Super-Nintendo-Entertainment-System-1990.jpeg
nintendo-entertainment-system-1983.jpeg
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
```

```
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$mkdir 1970s 1980s 1990s 2000s 2010s 2020s
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$ls ls -d */
ls: cannot access 'ls': No such file or directory
1970s/ 1980s/ 1990s/ 2000s/ 2010s/ 2020s/
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$scp nintendo-color-tv-game-1977-1980.jpeg 1970s
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$mv *198?.* 1980s
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$mv *199?.* 1990s
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$mv *200?.* 2000s
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$mv *2000-.* 2000s
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$mv *201?.* 2010s
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$mv *202?.* 2020s
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$ls 1970s
nintendo-color-tv-game-1977-1980.jpeg
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$ls 1980s
nintendo-color-tv-game-1977-1980.jpeg nintendo-entertainment-system-1983.jpeg
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$ls 1990s
Nintendo-64-1996.jpeg PlayStation-1-1994.jpeg Super-Nintendo-Entertainment-System-1990.jpeg
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$ls 2000s
Nintendo-GameCube-2001.jpeg Playstation-2-2000-.jpeg X-box-2001.jpeg
nintendo-Wii-2006.jpeg Playstation-3-2006.jpeg Xbox-360-2005.jpeg
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$ls 2010s
Nintendo-Switch-2017.jpeg nintendo-Wii-U-2012.jpeg Playstation-4-2013.jpeg Xbox-One-2013.jpeg
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$ls 2020s
Playstation-5-2020.jpeg Xbox-series-X-2020.jpg
[hasanovi167@UbuntuVM]~[/midtermS21/question9/midterm-q9/videogame-consoles]
$
```

Question 10

1. For me, the hardest question was number4. Because, part 3 and 4 was hard to solve.
2. The easiest question is Number10. Because, it is a survey and it is only asking me to provide some feedbacks on the midterm.
3. I would say, if each question had less steps it would have been easier.
4. It will be 5. I have learned a lot about linux.
5. I think its easier to take traditional exams, because they are multiple choices. In my opinion, traditional exam is better than this because they're easy to take.