

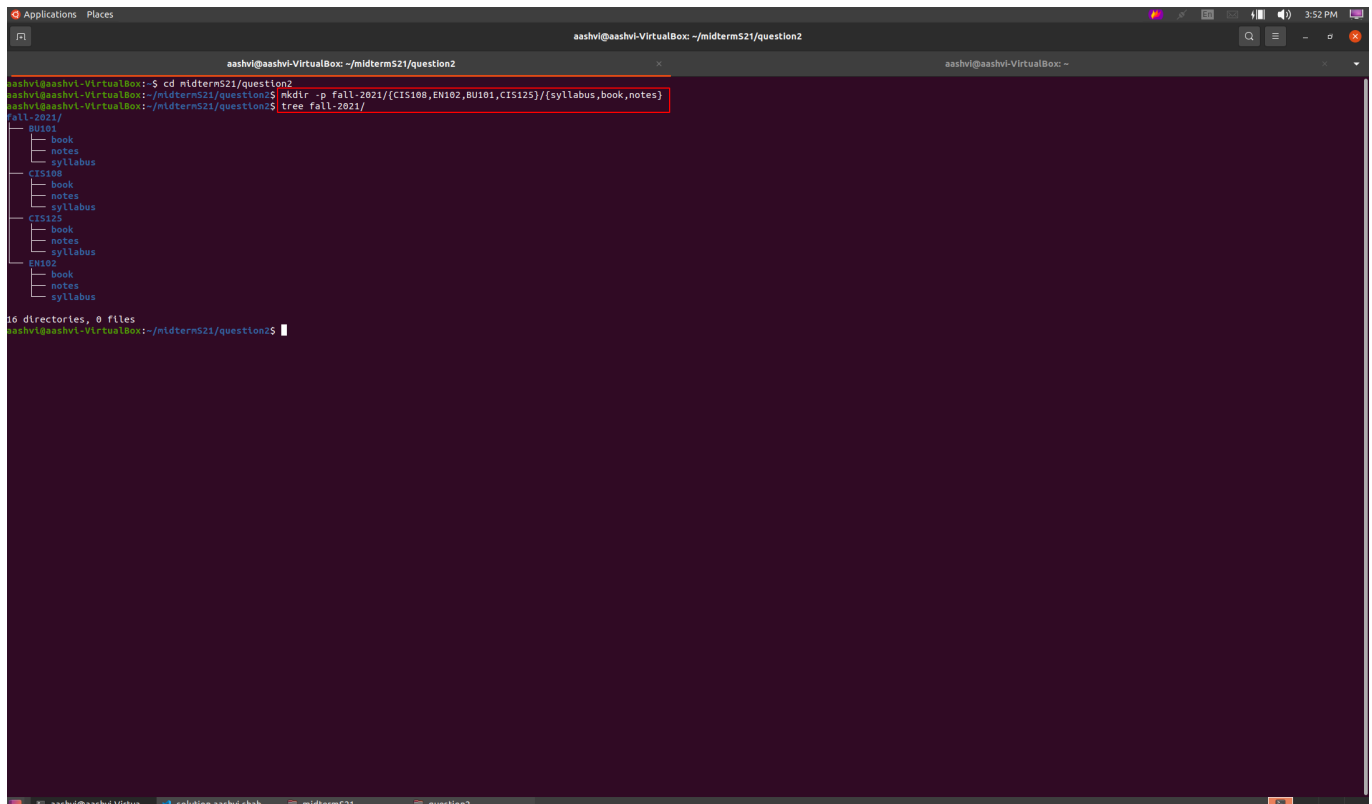
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- Semester: **Spring 2019**

Midterm Spring 2021

Question 1

Ubuntu is a free operating system, so there is no monetary investment required. It is a smart idea for the lab to upgrade to Ubuntu rather than purchasing new computers. The speed of current computers can be poor attributed to the reason that they have old processor. Ubuntu is well-known for its lightning-fast speed and excellent security safety. Hackers would find it difficult to gain access to your machines. From the moment you install Ubuntu, you will make it your own as it is customizable. The requirement for Ubuntu to work finely is RAM of a computer. The computer in the lab carries 2gb of RAM, which fits pretty fine to work with Ubuntu. Applications like c++, python, and web development need a lot of space, which Linux can easily provide. It's also simple to expand the available capacity by adding more disk space. Ubuntu is very convenient to use as it is user-friendly. For all this reasons, I can say that it is better to switch to Ubuntu rather than spending money in upgrading the machines.

Question 2



```
aashvi@aashvi-VirtualBox: ~/midtermS21/question2
aashvi@aashvi-VirtualBox:~/midtermS21/question2$ cd midtermS21/question2
aashvi@aashvi-VirtualBox:~/midtermS21/question2$ mkdir -p fall-2021/([CIS108,EN102,BUI01,CIS125])/[syllabus,book,notes]
aashvi@aashvi-VirtualBox:~/midtermS21/question2$ tree fall-2021/
fall-2021/
├── BUI01
│   ├── book
│   ├── notes
│   └── syllabus
├── CIS108
│   ├── book
│   ├── notes
│   └── syllabus
├── CIS125
│   ├── book
│   ├── notes
│   └── syllabus
└── EN102
    ├── book
    ├── notes
    └── syllabus

0 directories, 0 files
aashvi@aashvi-VirtualBox:~/midtermS21/question2$
```

```

Applications  Places

aashvi@aashvi-VirtualBox: ~/midtermS21/question2

aashvi@aashvi-VirtualBox: ~/midtermS21/question2$ ls --color=auto -X question2.tar - Parrot Terminal

aashvi@aashvi-VirtualBox:~/midtermS21/question2$ wget https://robertalberto.com/cis106/midtermfiles/question2.tar
--2021-04-29 16:04:39-- https://robertalberto.com/cis106/midtermfiles/question2.tar
Resolving robertalberto.com (robertalberto.com)... 34.66.0.162
Connecting to robertalberto.com (robertalberto.com)|34.66.0.162|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 20480 (20K) [application/x-tar]
Saving to: 'question2.tar'

question2.tar
=====] 20.00K --.-KB/s in 0.05s

2021-04-29 16:04:39 (395 KB/s) - 'question2.tar' saved [20480/20480]

aashvi@aashvi-VirtualBox:~/midtermS21/question2$ tar -xf question2.tar
aashvi@aashvi-VirtualBox:~/midtermS21/question2$ ls question2.tar
question2.tar
aashvi@aashvi-VirtualBox:~/midtermS21/question2$ ls
fall-2021 question2 question2.tar
aashvi@aashvi-VirtualBox:~/midtermS21/question2$ tar -tf question2.tar
question2/
question2/cis108_all_assignments.txt
question2/cis108notes.md
question2/cis125book.pdf
question2/cis125notes.md
question2/en102syllabus.docx
question2/cis125syllabus.docx
question2/bui101book.pdf
question2/bui101syllabus.docx
question2/cis108syllabus.docx
question2/bui101notes.md
question2/en102_all_assignments.txt
question2/cis108book.pdf
question2/cis125_all_assignments.txt
question2/bui101_all_assignments.txt
question2/en102book.pdf
question2/en102notes.md
aashvi@aashvi-VirtualBox:~/midtermS21/question2$

```

```

Applications  Places

aashvi@aashvi-VirtualBox: ~/midtermS21/question2

aashvi@aashvi-VirtualBox: ~/midtermS21/question2$ tar --usage - Parrot Terminal

aashvi@aashvi-VirtualBox:~/midtermS21/question2$ wget https://robertalberto.com/cis106/midtermfiles/question2.tar
--2021-04-29 16:04:39-- https://robertalberto.com/cis106/midtermfiles/question2.tar
Resolving robertalberto.com (robertalberto.com)... 34.66.0.162
Connecting to robertalberto.com (robertalberto.com)|34.66.0.162|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 20480 (20K) [application/x-tar]
Saving to: 'question2.tar'

question2.tar
=====] 20.00K --.-KB/s in 0.05s

2021-04-29 16:04:39 (395 KB/s) - 'question2.tar' saved [20480/20480]

aashvi@aashvi-VirtualBox:~/midtermS21/question2$ tar -xf question2.tar
aashvi@aashvi-VirtualBox:~/midtermS21/question2$ ls question2.tar
question2.tar
aashvi@aashvi-VirtualBox:~/midtermS21/question2$ ls
fall-2021 question2 question2.tar
aashvi@aashvi-VirtualBox:~/midtermS21/question2$ tar -tf question2.tar
question2/
question2/cis108_all_assignments.txt
question2/cis108notes.md
question2/cis125book.pdf
question2/cis125notes.md
question2/en102syllabus.docx
question2/bui101book.pdf
question2/bui101syllabus.docx
question2/cis108syllabus.docx
question2/bui101notes.md
question2/en102_all_assignments.txt
question2/cis108book.pdf
question2/cis125_all_assignments.txt
question2/bui101_all_assignments.txt
question2/en102book.pdf
question2/en102notes.md
aashvi@aashvi-VirtualBox:~/midtermS21/question2$ tar -xf question2.tar.gz
tar: question2.tar.gz: Cannot open: No such file or directory
tar: Error is not recoverable: exiting now
aashvi@aashvi-VirtualBox:~/midtermS21/question2$ tar -xzf question2.tar.gz
tar (child): question2.tar.gz: Cannot open: No such file or directory
tar (child): Error is not recoverable: exiting now
tar: child returned status 2
tar: Error is not recoverable: exiting now
aashvi@aashvi-VirtualBox:~/midtermS21/question2$ tar -xtf question2.tar
tar: You may not specify more than one '-Acdrux', '-delete' or '--test-label' option
Try 'tar --help' or 'tar --usage' for more information.
aashvi@aashvi-VirtualBox:~/midtermS21/question2$ ls question2/
bui101_all_assignments.txt  bui101notes.md  cis108_all_assignments.txt  cis108notes.md  cis125_all_assignments.txt  cis125notes.md  en102_all_assignments.txt  en102notes.md
bui101book.pdf             bui101syllabus.docx  cis108book.pdf             cis108syllabus.docx  cis125book.pdf             cis125syllabus.docx  en102book.pdf             en102syllabus.docx
aashvi@aashvi-VirtualBox:~/midtermS21/question2$ tree question2/
question2/
|-- bui101_all_assignments.txt
|-- bui101book.pdf
|-- bui101notes.md
|-- bui101syllabus.docx
|-- cis108_all_assignments.txt
|-- cis108book.pdf
|-- cis108notes.md
|-- cis108syllabus.docx
|-- cis125_all_assignments.txt
|-- cis125book.pdf
|-- cis125notes.md
|-- cis125syllabus.docx
|-- en102_all_assignments.txt
|-- en102book.pdf
|-- en102notes.md
|-- en102syllabus.docx
0 directories, 16 files
aashvi@aashvi-VirtualBox:~/midtermS21/question2$

```

```

aashvi@aashvi-VirtualBox: ~/midterm521/question2
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/bu101books.pdf fall-2021/BU101/Book
mv: cannot stat 'question2/bu101books.pdf': No such file or directory
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/bu101book.pdf fall-2021/BU101/book
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/bu101notes.md fall-2021/BU101/notes
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/bu101book.pdf fall-2021/BU101/book
mv: cannot stat 'question2/bu101book.pdf': No such file or directory
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/bu101book.pdf fall-2021/BU101/book
mv: cannot stat 'question2/bu101book.pdf': No such file or directory
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/bu101syllabus fall-2021/BU101/syllabus
mv: cannot stat 'question2/bu101syllabus': No such file or directory
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/bu101syllabus.docx fall-2021/BU101/syllabus
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/cis108book.pdf fall-2021/CIS108/book
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/cis108syllabus.docx fall-2021/CIS108/syllabus
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/cis108notes.md fall-2021/CIS108/notes
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/en102book.pdf fall-2021/EN102/book
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/en102syllabus.docx fall-2021/EN102/syllabus
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/en102notes.md fall-2021/EN102/notes
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/cis125book.pdf fall-2021/CIS125/book
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/cis125notes.md fall-2021/CIS125/notes
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/cis125syllabus.docx fall-2021/CIS125/syllabus
aashvi@aashvi-VirtualBox:~/midterm521/question2$ mv question2/bu101book.pdf fall-2021/BU101/book

```

```

aashvi@aashvi-VirtualBox:~/midterm521/question2$ ls -lh
total 28K
drwxrwxr-x 6 aashvi aashvi 4.0K Apr 29 15:46 fall-2021/
drwxrwxr-x 2 aashvi aashvi 4.0K Apr 29 18:35 question2/
-rw-rw-r-- 1 aashvi aashvi 20K Apr 21 14:51 question2.tar
aashvi@aashvi-VirtualBox:~/midterm521/question2$ ls -lh fall-2021/
total 16K
drwxrwxr-x 5 aashvi aashvi 4.0K Apr 29 18:28 BU101/
drwxrwxr-x 5 aashvi aashvi 4.0K Apr 29 15:46 CIS108/
drwxrwxr-x 5 aashvi aashvi 4.0K Apr 29 15:46 CIS125/
drwxrwxr-x 5 aashvi aashvi 4.0K Apr 29 15:46 EN102/
aashvi@aashvi-VirtualBox:~/midterm521/question2$ tree -lh fall-2021/
fall-2021/
├── [ 4.0K] BU101/
│   ├── [ 4.0K] book
│   │   └── [ 86] bu101book.pdf
│   ├── [ 4.0K] notes
│   │   └── [ 104] bu101notes.md
│   └── [ 4.0K] syllabus
│       └── [ 71] bu101syllabus.docx
├── [ 4.0K] CIS108/
│   ├── [ 4.0K] book
│   │   └── [ 101] cis108book.pdf
│   ├── [ 4.0K] notes
│   │   └── [ 52] cis108notes.md
│   └── [ 4.0K] syllabus
│       └── [ 70] cis108syllabus.docx
├── [ 4.0K] CIS125/
│   ├── [ 4.0K] book
│   │   └── [ 90] cis125book.pdf
│   ├── [ 4.0K] notes
│   │   └── [ 86] cis125notes.md
│   └── [ 4.0K] syllabus
│       └── [ 79] cis125syllabus.docx
└── [ 4.0K] EN102/
    ├── [ 4.0K] book
    │   └── [ 142] en102book.pdf
    ├── [ 4.0K] notes
    │   └── [ 69] en102notes.md
    └── [ 4.0K] syllabus
        └── [ 85] en102syllabus.docx

16 directories, 12 files
aashvi@aashvi-VirtualBox:~/midterm521/question2$

```

Question 3

```

aashvi@aashvi-VirtualBox: ~/midterm521/question3
aashvi@aashvi-VirtualBox:~/midterm521/question3$ mkdir -p CarCompany/sql/{script1.sql,script2.sql} CarCompany/html/{home.html,contact.html,products.html} CarCompany/css/{base.css,reset.css} CarCompany/js/{slide.js,loader.js,script.js}
aashvi@aashvi-VirtualBox:~/midterm521/question3$ tree
tree
├── CarCompany
│   ├── css
│   │   ├── base.css
│   │   └── reset.css
│   ├── html
│   │   ├── contact.html
│   │   ├── home.html
│   │   └── products.html
│   ├── js
│   │   ├── loader
│   │   ├── script.js
│   │   └── slide.js
│   └── sql
│       ├── script1.sql
│       └── script2.sql
└── 16 directories, 0 files
aashvi@aashvi-VirtualBox:~/midterm521/question3$ -r CarCompany/js/js
-r: command not found
aashvi@aashvi-VirtualBox:~/midterm521/question3$ -rm -r CarCompany/js/js
Command '-rm' not found, did you mean:
  command 'rm' from deb coreutils (8.30-3ubuntu2)
  command 'rmi' from deb aufs (1.4p16-14)
  command 'frn' from deb matplotlib (1:3.7-2.1)
  command 'srn' from deb secure-delete (3.1-0ubuntu2)
  command 'crn' from deb crash (4.2.0-0ubuntu1)
  command 'rcn' from deb crr11a (20180106-9)

Try: sudo apt install <deb name>
aashvi@aashvi-VirtualBox:~/midterm521/question3$ rm -r CarCompany/js/js
aashvi@aashvi-VirtualBox:~/midterm521/question3$ tree
tree
├── CarCompany
│   ├── css
│   │   ├── base.css
│   │   └── reset.css
│   ├── html
│   │   ├── contact.html
│   │   ├── home.html
│   │   └── products.html
│   ├── js
│   │   ├── loader
│   │   ├── script.js
│   │   └── slide.js
│   └── sql
│       ├── script1.sql
│       └── script2.sql
└── 16 directories, 0 files

```

```
Applications Places
aashvi@aashvi-VirtualBox: ~/midterm521/question3
aashvi@aashvi-VirtualBox:~/midterm521/question3$ tree
.
├── CarCompany
│   ├── css
│   │   ├── base.css
│   │   └── reset.css
│   ├── html
│   │   ├── contac.html
│   │   ├── home.html
│   │   └── products.html
│   ├── js
│   │   ├── loader.js
│   │   ├── script.js
│   │   └── slide.js
│   └── sql
│       ├── script1.sql
│       └── script2.sql
└── 15 directories, 0 files
aashvi@aashvi-VirtualBox:~/midterm521/question3$
```

```
Applications Places
aashvi@aashvi-VirtualBox: ~/midterm521/question3
aashvi@aashvi-VirtualBox:~/midterm521/question3$ tree
.
├── CarCompany
│   ├── css
│   │   ├── base.css
│   │   └── reset.css
│   ├── html
│   │   ├── contac.html
│   │   ├── home.html
│   │   └── products.html
│   ├── js
│   │   ├── loader.js
│   │   ├── script.js
│   │   └── slide.js
│   └── sql
│       ├── script1.sql
│       └── script2.sql
└── 15 directories, 0 files
aashvi@aashvi-VirtualBox:~/midterm521/question3$ ls -RlRgo CarCompany
CarCompany:
total 16K
drwxrwxr-x 4 4.0K Apr 29 19:42 sql
drwxrwxr-x 5 4.0K Apr 29 19:45 js
drwxrwxr-x 5 4.0K Apr 29 19:42 html
drwxrwxr-x 4 4.0K Apr 29 19:42 css

CarCompany/sql:
total 8.0K
drwxrwxr-x 2 4.0K Apr 29 19:42 script2.sql
drwxrwxr-x 2 4.0K Apr 29 19:42 script1.sql

CarCompany/sql/script2.sql:
total 0

CarCompany/sql/script1.sql:
total 0

CarCompany/js:
total 12K
drwxrwxr-x 2 4.0K Apr 29 19:42 slide.js
drwxrwxr-x 2 4.0K Apr 29 19:42 script.js
drwxrwxr-x 2 4.0K Apr 29 19:45 loader.js

CarCompany/js/slide.js:
total 0

CarCompany/js/script.js:
total 0

CarCompany/js/loader.js:
total 0

CarCompany/html:
total 12K
drwxrwxr-x 2 4.0K Apr 29 19:42 products.html
drwxrwxr-x 2 4.0K Apr 29 19:42 home.html
drwxrwxr-x 2 4.0K Apr 29 19:42 contac.html

CarCompany/html/products.html:
total 0

CarCompany/html/home.html:
total 0
```

```

aashvi@aashvi-VirtualBox: ~/midtermS21/question3
aashvi@aashvi-VirtualBox:~/midtermS21/question3$ tar -cf CarCompany.tar CarCompany
aashvi@aashvi-VirtualBox:~/midtermS21/question3$ xz CarCompany.tar
aashvi@aashvi-VirtualBox:~/midtermS21/question3$ ls
CarCompany  CarCompany.tar.xz
aashvi@aashvi-VirtualBox:~/midtermS21/question3$ mv CarCompany.tar.xz ~/Documents
aashvi@aashvi-VirtualBox:~/midtermS21/question3$ cd
aashvi@aashvi-VirtualBox:~/Documents$ ls
CarCompany.tar.xz
aashvi@aashvi-VirtualBox:~/Documents$ cd
aashvi@aashvi-VirtualBox:~/midtermS21/question3$ rm -r CarCompany
aashvi@aashvi-VirtualBox:~/midtermS21/question3$ ls

```

Question 4

```

aashvi@aashvi-VirtualBox: [~]
→ cd midtermS21/question4
aashvi@aashvi-VirtualBox: [~/midtermS21/question4]
→ wget https://robertalberto.com/cis106/midtermfiles/maria-college-files.tar.xz
--2021-05-01 23:30:25-- https://robertalberto.com/cis106/midtermfiles/maria-college-files.tar.xz
Resolving robertalberto.com (robertalberto.com)... 34.66.0.162
Connecting to robertalberto.com (robertalberto.com)|34.66.0.162|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 27287876 (26M) [application/x-xz]
Saving to: 'maria-college-files.tar.xz'

maria-college-files.tar.xz      100%[=====] 26.02M  3.24MB/s   in 9.2s
2021-05-01 23:30:34 (2.83 MB/s) - 'maria-college-files.tar.xz' saved [27287876/27287876]

aashvi@aashvi-VirtualBox: [~/midtermS21/question4]
→ ls
maria-college-files.tar.xz
aashvi@aashvi-VirtualBox: [~/midtermS21/question4]
→ $xz -d maria-college-files.tar.xz
aashvi@aashvi-VirtualBox: [~/midtermS21/question4]
→ tar -xf maria-college-files.tar.xz
tar: maria-college-files.tar.xz: Cannot open: No such file or directory
tar: Error is not recoverable: exiting now
aashvi@aashvi-VirtualBox: [~/midtermS21/question4]
→ ls
maria-college-files  maria-college-files.tar
aashvi@aashvi-VirtualBox: [~/midtermS21/question4]
→ tar -xf maria-college-files.tar
aashvi@aashvi-VirtualBox: [~/midtermS21/question4]
→ ls
maria-college-files  maria-college-files.tar
aashvi@aashvi-VirtualBox: [~/midtermS21/question4]
→ tar -vf maria-college-files.tar --delete
aashvi@aashvi-VirtualBox: [~/midtermS21/question4]
→ ls
maria-college-files  maria-college-files.tar
aashvi@aashvi-VirtualBox: [~/midtermS21/question4]
→ tar -vf maria-college-files.tar --delete ~/midtermS21/question4
tar: /home/aashvi/midtermS21/question4: Not found in archive
tar: Exiting with failure status due to previous errors
aashvi@aashvi-VirtualBox: [~/midtermS21/question4]
→ tar -vf maria-college-files.tar --delete midtermS21/question4
tar: midtermS21/question4: Not found in archive
tar: Exiting with failure status due to previous errors
aashvi@aashvi-VirtualBox: [~/midtermS21/question4]
→ tar -vf yourArchive.tar --delete maria-college-files.tar
tar: maria-college-files.tar: Not found in archive
tar: Exiting with failure status due to previous errors
aashvi@aashvi-VirtualBox: [~/midtermS21/question4]
→ $

```

```
Applications  Places
ls --color=auto - Parrot Terminal

maria-college-files.tar.xz      100%[=====] 26.02M  3.24MB/s   in 9.2s
2021-05-01 23:30:34 (2.83 MB/s) - 'maria-college-files.tar.xz' saved [27287876/27287876]

[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ ls
maria-college-files.tar.xz
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ xz -d maria-college-files.tar.xz
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ tar -xf maria-college-files.tar.xz
tar: maria-college-files.tar.xz: Cannot open: No such file or directory
tar: Error is not recoverable: exiting now
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ ls
maria-college-files.tar
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ tar -xf maria-college-files.tar
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ ls
maria-college-files  maria-college-files.tar
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ tar -vf maria-college-files.tar --delete
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ ls
maria-college-files  maria-college-files.tar
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ tar -vf maria-college-files.tar --delete ~/midtermS21/question4
tar: /home/aashvi/midtermS21/question4: Not found in archive
tar: Exiting with failure status due to previous errors
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ tar -vf maria-college-files.tar --delete midtermS21/question4
tar: midtermS21/question4: Not found in archive
tar: Exiting with failure status due to previous errors
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ tar -vf yourArchive.tar --delete maria-college-files.tar
tar: maria-college-files.tar: Not found in archive
tar: Exiting with failure status due to previous errors
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ rm maria-college-files.tar
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ ls
maria-college-files  yourArchive.tar
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ rm yourArchive.tar
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ ls
maria-college-files
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$
```

```
Applications  Places

ls --color=auto -lh maria-college-files - Parrot Terminal

[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
[aashvi@aashvi-VirtualBox] touch all-files-org.md
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ cat maria-college-files
cat: maria-college-files: Is a directory
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ ls maria-college-files
calculator.exe  email.docx  grades.xls  motog.jpg  program.exe  site.html  videos.html
code.pdf       expenses.xls  iphone.jpg  panama.png  puertorico.png  spreadsheets.xls  wiki.html
communication.docx  galaxy.jpg  laundry.txt  pccc-aasprogram.pdf  pyramid.docx  students.xls
documentation.pdf  game.exe  mealplan.txt  pccc-logo.png  shoppinglist.txt  venezuela.png
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ ls -lh
total 4.0K
-rw-rw-r-- 1 aashvi aashvi 0 May 1 23:42 all-files-org.md
drwxrwxr-x 2 aashvi aashvi 4.0K Apr 21 17:11 maria-college-files
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$ ls -lh maria-college-files
total 27M
-rw-rw-r-- 1 aashvi aashvi 109 Apr 21 16:54 calculator.exe
-rw-rw-r-- 1 aashvi aashvi 62 Apr 21 16:53 code.pdf
-rw-rw-r-- 1 aashvi aashvi 50 Apr 21 16:52 communication.docx
-rw-rw-r-- 1 aashvi aashvi 70 Apr 21 16:53 documentation.pdf
-rw-rw-r-- 1 aashvi aashvi 123 Apr 21 16:52 email.docx
-rw-rw-r-- 1 aashvi aashvi 79 Apr 21 16:51 expenses.xls
-rw-rw-r-- 1 aashvi aashvi 141K Apr 21 16:50 galaxy.jpg
-rw-rw-r-- 1 aashvi aashvi 98 Apr 21 16:54 game.exe
-rw-rw-r-- 1 aashvi aashvi 41 Apr 21 16:52 grades.xls
-rw-rw-r-- 1 aashvi aashvi 140K Apr 21 16:50 iphone.jpg
-rw-rw-r-- 1 aashvi aashvi 13 Apr 21 17:11 laundry.txt
-rw-rw-r-- 1 aashvi aashvi 13 Apr 21 17:11 mealplan.txt
-rw-rw-r-- 1 aashvi aashvi 140K Apr 21 16:50 motog.jpg
-rw-rw-r-- 1 aashvi aashvi 241K Apr 21 16:50 panama.png
-rw-rw-r-- 1 aashvi aashvi 49K Apr 21 01:20 pccc-aasprogram.pdf
-rw-rw-r-- 1 aashvi aashvi 9.0K Dec 13 2019 pccc-logo.png
-rw-rw-r-- 1 aashvi aashvi 110 Apr 21 16:54 program.exe
-rw-rw-r-- 1 aashvi aashvi 241K Apr 21 16:49 puertorico.png
-rw-rw-r-- 1 aashvi aashvi 26M Sep 13 2020 pyramid.docx
-rw-rw-r-- 1 aashvi aashvi 14 Apr 21 17:11 shoppinglist.txt
-rw-rw-r-- 1 aashvi aashvi 27 Apr 21 17:10 site.html
-rw-rw-r-- 1 aashvi aashvi 8.5K Jul 9 2020 spreadsheets.xls
-rw-rw-r-- 1 aashvi aashvi 46 Apr 21 16:52 students.xls
-rw-rw-r-- 1 aashvi aashvi 241K Apr 21 16:49 venezuela.png
-rw-rw-r-- 1 aashvi aashvi 27 Apr 21 17:10 videos.html
-rw-rw-r-- 1 aashvi aashvi 27 Apr 21 17:10 wiki.html
[aashvi@aashvi-VirtualBox] ~/midtermS21/question4
$
```

Question 5

```
Applications Places
sudo apt install apache2 - Parrot Terminal

sudo apt install apache2 - Parrot Terminal
cd midtermS21/question4 - Parrot Terminal

[aashvi@aashvi-VirtualBox]~$
$cd midtermS21/question5
[aashvi@aashvi-VirtualBox]~/midtermS21/question5$
$wget https://robertalberto.com/cis106/midtermfiles/samplesite2.tar.gz
--2021-05-01 22:28:49-- https://robertalberto.com/cis106/midtermfiles/samplesite2.tar.gz
Resolving robertalberto.com (robertalberto.com)... 34.66.0.162
Connecting to robertalberto.com (robertalberto.com)[34.66.0.162]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1202054 (1.1M) [application/x-gzip]
Saving to: 'samplesite2.tar.gz'

samplesite2.tar.gz      100%[=====] 1.15M  804KB/s  in 1.5s

2021-05-01 22:28:51 (804 KB/s) - 'samplesite2.tar.gz' saved [1202054/1202054]

[aashvi@aashvi-VirtualBox]~/midtermS21/question5$
$gzip -d samplesite@.tar.gz
gzip: samplesite@.tar.gz: No such file or directory
[aashvi@aashvi-VirtualBox]~/midtermS21/question5$
$gzip -d samplesite@.tar.gz
gzip: samplesite@.tar.gz: No such file or directory
[aashvi@aashvi-VirtualBox]~/midtermS21/question5$
$gzip -d samplesite2@.tar.gz
gzip: samplesite2@.tar.gz: No such file or directory
[aashvi@aashvi-VirtualBox]~/midtermS21/question5$
$gzip -d samplesite2.tar.gz
[aashvi@aashvi-VirtualBox]~/midtermS21/question5$
$ls
samplesite2.tar
[aashvi@aashvi-VirtualBox]~/midtermS21/question5$
$tar -xvf samplesite2.tar
[aashvi@aashvi-VirtualBox]~/midtermS21/question5$
$sudo apt install apache2
[sudo] password for aashvi:
Reading package lists... Done
Building dependency tree
Reading state information... Done
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 libqwing2v5
  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.
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap
0 upgraded, 8 newly installed, 0 to remove and 100 not upgraded.
```



```

Applications  Places

sudo systemctl enable apache2 - Parrot Terminal

aashvi@aashvi-VirtualBox:~[/var/www/html]
$ cd /var/www/html
aashvi@aashvi-VirtualBox:~[/var/www/html]
$ ls
index.html
aashvi@aashvi-VirtualBox:~[/var/www/html]
$ sudo mv index.html index.html.bk
aashvi@aashvi-VirtualBox:~[/var/www/html]
$ ls
index.html.bk
aashvi@aashvi-VirtualBox:~[/var/www/html]
$ cd ../
aashvi@aashvi-VirtualBox:~[/var/www]
$ cd midtermS21/question5
bash: cd: midtermS21/question5: No such file or directory
aashvi@aashvi-VirtualBox:~[/var/www]
$ cd ~/midtermS21/question5
aashvi@aashvi-VirtualBox:~/midtermS21/question5
$ mv ~/midtermS21/question5/sampleSite2/bg-masthead.jpg /var/www/html
mv: cannot move '/home/aashvi/midtermS21/question5/sampleSite2/bg-masthead.jpg' to '/var/www/html/bg-masthead.jpg': Permission denied
aashvi@aashvi-VirtualBox:~/midtermS21/question5
$ sudo mv ~/midtermS21/question5/sampleSite2/bg-masthead.jpg /var/www/html
aashvi@aashvi-VirtualBox:~/midtermS21/question5
$ sudo mv ~/midtermS21/question5/sampleSite2/scripts.js /var/www/html
aashvi@aashvi-VirtualBox:~/midtermS21/question5
$ sudo mv ~/midtermS21/question5/sampleSite2/styles.css /var/www/html
aashvi@aashvi-VirtualBox:~/midtermS21/question5
$ sudo mv ~/midtermS21/question5/sampleSite2/fullsize/*.jpg /var/www/html
aashvi@aashvi-VirtualBox:~/midtermS21/question5
$ sudo mv ~/midtermS21/question5/sampleSite2/thumbnails/*.jpg /var/www/html
aashvi@aashvi-VirtualBox:~/midtermS21/question5
$ sudo mv ~/midtermS21/question5/sampleSite2/favicon.ico /var/www/html
aashvi@aashvi-VirtualBox:~/midtermS21/question5
$ sudo mv ~/midtermS21/question5/sampleSite2/index.html /var/www/html
aashvi@aashvi-VirtualBox:~/midtermS21/question5
$ sudo systemctl restart apache2
aashvi@aashvi-VirtualBox:~/midtermS21/question5
$ 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
aashvi@aashvi-VirtualBox:~/midtermS21/question5

```

Question 6

```

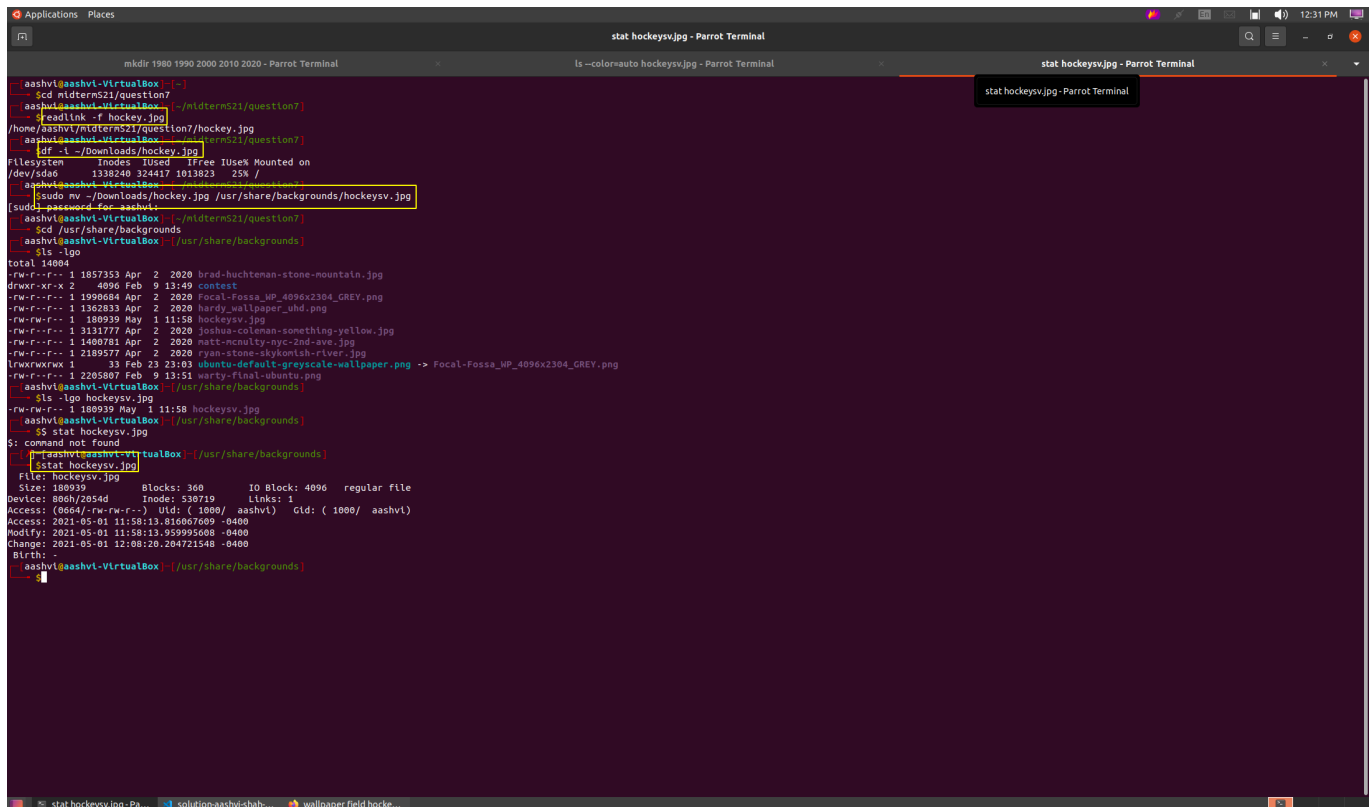
Applications  Places

aashvi@aashvi-VirtualBox:~/midtermS21/question6

aashvi@aashvi-VirtualBox:~/midtermS21/question6$ cd ~/midtermS21/question6
aashvi@aashvi-VirtualBox:~/midtermS21/question6$ wc -c /etc/passwd /etc/group /etc/shadow -j.bashrc /usr/share/dict/american-english
2879 /etc/passwd
1099 /etc/group
wc: /etc/shadow: Permission denied
4767 /home/aashvi/.bashrc
972398 /usr/share/dict/american-english
981143 total
aashvi@aashvi-VirtualBox:~/midtermS21/question6$ ls -lsh /etc/passwd /etc/group /etc/shadow -j.bashrc /usr/share/dict/american-english
-rw-r--r-- 1 root root 950K Apr 24 2018 /usr/share/dict/american-english
-rw-rw-r-- 1 aashvi aashvi 4.7K Apr 29 15:35 /home/aashvi/.bashrc
-rw-r--r-- 1 root root 2.9K Feb 25 19:45 /etc/passwd
-rw-r--r-- 1 root shadow 1.5K Feb 25 19:45 /etc/shadow
-rw-r--r-- 1 root root 1.1K Feb 25 19:45 /etc/group
aashvi@aashvi-VirtualBox:~/midtermS21/question6$ ls -lsh /etc/passwd /etc/group /etc/shadow -j.bashrc /usr/share/dict/american-english > sizes
-rw-r--r-- 1 root root 950K Apr 24 2018 /usr/share/dict/american-english
-rw-rw-r-- 1 aashvi aashvi 4.7K Apr 29 15:35 /home/aashvi/.bashrc
-rw-r--r-- 1 root root 2.9K Feb 25 19:45 /etc/passwd
-rw-r--r-- 1 root shadow 1.5K Feb 25 19:45 /etc/shadow
-rw-r--r-- 1 root root 1.1K Feb 25 19:45 /etc/group
aashvi@aashvi-VirtualBox:~/midtermS21/question6$

```

Question 7



```
mkdir 1980 1990 2000 2010 2020 - Parrot Terminal
ls -colorauto hockeysv.jpg - Parrot Terminal
stat hockeysv.jpg - Parrot Terminal

aashvi@aashvi-VirtualBox:~$ cd midterm521/question7
aashvi@aashvi-VirtualBox:~/midterm521/question7$ readlink -f hockey.jpg
/home/aashvi/midterm521/question7/hockey.jpg
aashvi@aashvi-VirtualBox:~/midterm521/question7$ df -t ~/Downloads/hockey.jpg
Filesystem      Inodes  IUsed  IFree IUse% Mounted on
/dev/sda6       1338240 324417 1013823   25% /
aashvi@aashvi-VirtualBox:~/midterm521/question7$ sudo mv ~/Downloads/hockey.jpg /usr/share/backgrounds/hockeysv.jpg
[sudo] password for aashvi:
aashvi@aashvi-VirtualBox:~/midterm521/question7$ cd /usr/share/backgrounds
aashvi@aashvi-VirtualBox:~/usr/share/backgrounds$ ls -lgo
total 14804
-rw-r--r-- 1 1857353 Apr 2 2020 brad-huchteman-stone-mountain.jpg
drwxr-xr-x 2 4096 Feb 9 13:49 contest
-rw-r--r-- 1 1990684 Apr 2 2020 Focal-Fossa_WP_4096x2304_GREY.png
-rw-r--r-- 1 1362833 Apr 2 2020 hardy_wallpaper_uhd.png
-rw-r--r-- 1 188939 May 1 11:58 hockeysv.jpg
-rw-r--r-- 1 3131777 Apr 2 2020 Joshua-Coleman-something-yellow.jpg
-rw-r--r-- 1 1400781 Apr 2 2020 matt-mcnulty-nyc-2nd-ave.jpg
-rw-r--r-- 1 2189577 Apr 2 2020 ryan-stone-skykomish-river.jpg
lrwxrwxrwx 1 33 Feb 23 23:03 ubuntu-default-greyscale-wallpaper.png -> Focal-Fossa_WP_4096x2304_GREY.png
-rw-r--r-- 1 2205807 Feb 9 13:51 warty-final-ubuntu.png
aashvi@aashvi-VirtualBox:~/usr/share/backgrounds$ ls -lgo hockeysv.jpg
-rw-rw-r-- 1 188939 May 1 11:58 hockeysv.jpg
aashvi@aashvi-VirtualBox:~/usr/share/backgrounds$ $S stat hockeysv.jpg
$S: command not found
aashvi@aashvi-VirtualBox:~/usr/share/backgrounds$ stat hockeysv.jpg
  File: hockeysv.jpg
  Size: 188939      Blocks: 360      IO Block: 4096   regular file
Device: 806h/2054d Inode: 530719   Links: 1
Access: (0664/rw-rw-r--)  Uid: ( 1000 / aashvi)   Gid: ( 1000 / aashvi)
Access: 2021-05-01 11:58:13.916007600 -0400
Modify: 2021-05-01 11:58:13.959995600 -0400
Change: 2021-05-01 12:08:20.204721540 -0400
 Birth:
aashvi@aashvi-VirtualBox:~/usr/share/backgrounds$
```

Question 8

```

Applications  Places

ls --color=auto - Parrot Terminal

[aashvi@aashvi-VirtualBox]~$
→ $cd midtermS21/question8
[aashvi@aashvi-VirtualBox]~/midtermS21/question8$
→ $wget https://robertalberto.com/cis106/midtermfiles/mcu.tar.xz
--2021-04-30 19:06:18-- https://robertalberto.com/cis106/midtermfiles/mcu.tar.xz
Resolving robertalberto.com (robertalberto.com)... 34.66.0.162
Connecting to robertalberto.com (robertalberto.com)|34.66.0.162|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 470452 (459K) [application/x-xz]
Saving to: 'mcu.tar.xz'

mcu.tar.xz                100%[=====>] 459.43K  359KB/s  in 1.3s

2021-04-30 19:06:21 (359 KB/s) - 'mcu.tar.xz' saved [470452/470452]

[aashvi@aashvi-VirtualBox]~/midtermS21/question8$
→ $mkdir midterm-q8
[aashvi@aashvi-VirtualBox]~/midtermS21/question8$
→ $tar -xf mcu.tar.xz --directory midterm-q9
tar: midterm-q9: Cannot open: No such file or directory
tar: Error is not recoverable: exiting now
[aashvi@aashvi-VirtualBox]~/midtermS21/question8$
→ $tar -xf mcu.tar.xz --directory midterm-q8
[aashvi@aashvi-VirtualBox]~/midtermS21/question8$
→ $ls midterm-q9
ls: cannot access 'midterm-q9': No such file or directory
[aashvi@aashvi-VirtualBox]~/midtermS21/question8$
→ $ls midterm-q8
marverl-movies
[aashvi@aashvi-VirtualBox]~/midtermS21/question8$
→ $cd midterm-q8
[aashvi@aashvi-VirtualBox]~/midtermS21/question8/midterm-q8$
→ $cd marverl-movies
[aashvi@aashvi-VirtualBox]~/midtermS21/question8/midterm-q8/marverl-movies$
→ $ls marverl-movies
ls: cannot access 'marverl-movies': No such file or directory
[aashvi@aashvi-VirtualBox]~/midtermS21/question8/midterm-q8/marverl-movies$
→ $ls
ant-man-and-the-wasp.jpeg  black-panther.jpeg  guardians-of-the-galaxy-vol-1.jpeg  spiderman-homecoming.jpeg
ant-man.jpeg             captain-america-civil-war.jpeg  guardians-of-the-galaxy-vol-2.jpeg  the-incredible-hulk.jpeg
avengers-age-of-ultron.jpeg  captain-america-the-first-avenger.jpeg  iron-man-2.jpeg  thor.jpeg
avengers-endgame.jpeg      captain-america-the-winter-soldier.jpeg  iron-man-3.jpeg  thor-ragnarok.jpeg
avengers-infinity-war.jpeg  captain-marvel.jpeg  iron-man.jpeg    thor-the-dark-world.jpeg
avengers.jpeg             doctor-strange.jpeg  spiderman-far-way-from-home.jpeg

[aashvi@aashvi-VirtualBox]~/midtermS21/question8/midterm-q8/marverl-movies$
→ $

```

```

Applications  Places
sed -re 's/^[^]* //' - Parrot Terminal

[aashvi@aashvi-VirtualBox] ~/midtermS21/questions/midterm-q8/marvel-movies
$ mkdir CaptainAmerica Avengers AntMan BlackPanther DocStrange Ironman Spiderman Hulk Thor
[aashvi@aashvi-VirtualBox] ~/midtermS21/questions/midterm-q8/marvel-movies
$ ls
AntMan                               BlackPanther                         doctor-strange.jpeg                Spiderman
ant-man-and-the-wasp.jpeg            black-panther.jpeg                  guardians-of-the-galaxy-vol-1.jpeg  spiderman-far-way-from-home.jpeg
ant-man.jpeg                         CaptainAmerica                       guardians-of-the-galaxy-vol-2.jpeg  spiderman-homecoming.jpeg
Avengers                             captain-america-civil-war.jpeg       Hulk                                the-incredible-hulk.jpeg
avengers-age-of-ultron.jpeg          captain-america-the-first-avenger.jpeg Ironman                             thor.jpeg
avengers-endgame.jpeg               captain-america-the-winter-soldier.jpeg iron-man-2.jpeg                     thor-ragnarok.jpeg
avengers-infinity-war.jpeg           captain-marvel.jpeg                 iron-man-3.jpeg                     thor-the-dark-world.jpeg
avengers.jpeg                        DocStrange                          iron-man.jpeg

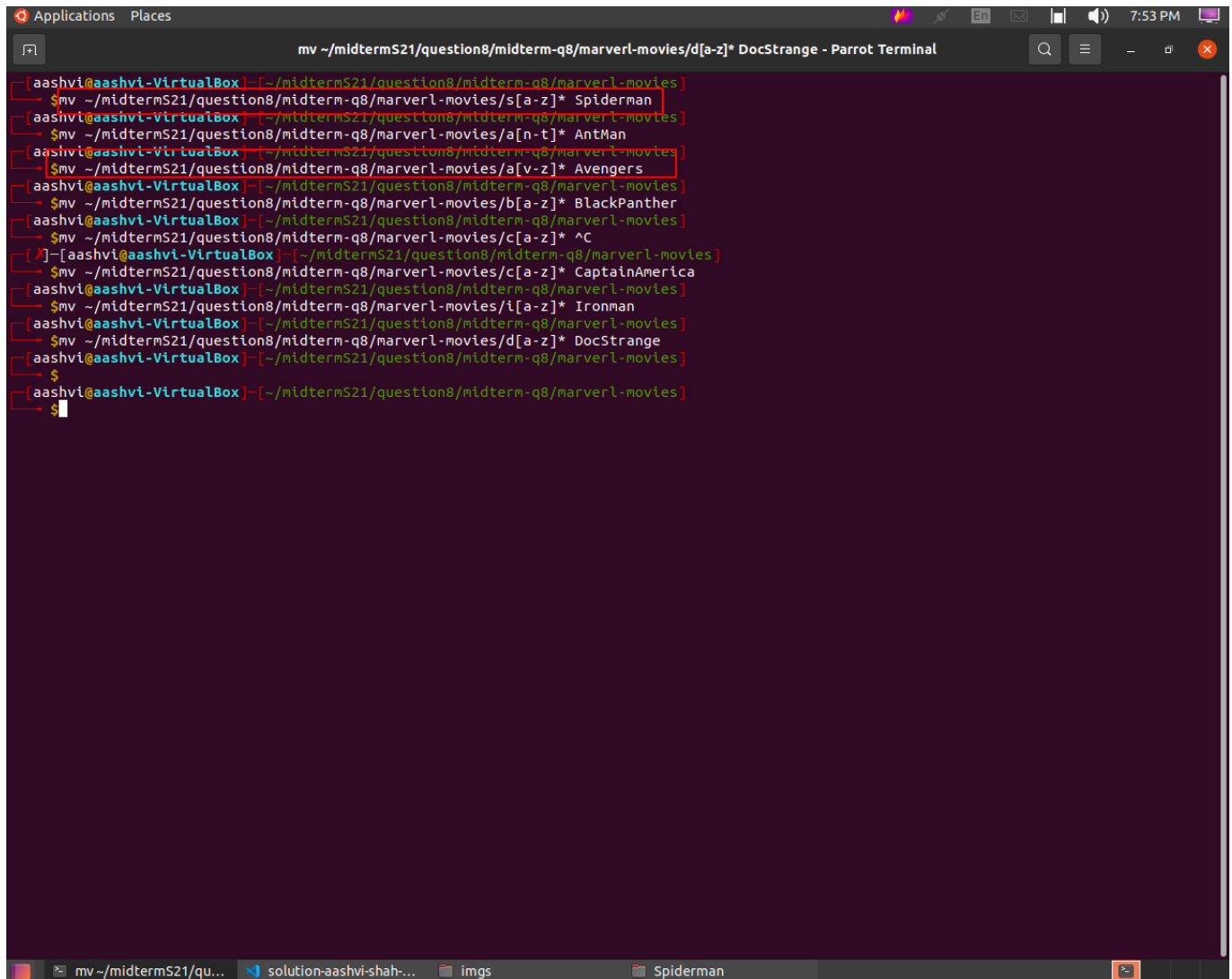
[aashvi@aashvi-VirtualBox] ~/midtermS21/question8/midterm-q8/marvel-movies
$ ls *[0-9].* -hlog
-rw-rw-r-- 1 23K Apr 21 21:00 guardians-of-the-galaxy-vol-1.jpeg
-rw-rw-r-- 1 25K Apr 21 20:59 guardians-of-the-galaxy-vol-2.jpeg
-rw-rw-r-- 1 19K Apr 21 20:56 iron-man-2.jpeg
-rw-rw-r-- 1 21K Apr 21 20:57 iron-man-3.jpeg
[aashvi@aashvi-VirtualBox] ~/midtermS21/question8/midterm-q8/marvel-movies
$ ls *[!0-9].* -hlog
-rw-rw-r-- 1 18K Apr 21 20:59 ant-man-and-the-wasp.jpeg
-rw-rw-r-- 1 19K Apr 21 20:58 ant-man.jpeg
-rw-rw-r-- 1 23K Apr 21 20:57 avengers-age-of-ultron.jpeg
-rw-rw-r-- 1 24K Apr 21 21:02 avengers-endgame.jpeg
-rw-rw-r-- 1 23K Apr 21 20:59 avengers-infinity-war.jpeg
-rw-rw-r-- 1 21K Apr 21 21:01 avengers.jpeg
-rw-rw-r-- 1 23K Apr 21 21:02 black-panther.jpeg
-rw-rw-r-- 1 21K Apr 21 21:01 captain-america-civil-war.jpeg
-rw-rw-r-- 1 18K Apr 21 20:58 captain-america-the-first-avenger.jpeg
-rw-rw-r-- 1 19K Apr 21 21:00 captain-america-the-winter-soldier.jpeg
-rw-rw-r-- 1 20K Apr 21 20:57 captain-marvel.jpeg
-rw-rw-r-- 1 24K Apr 21 20:59 doctor-strange.jpeg
-rw-rw-r-- 1 17K Apr 21 21:02 iron-man.jpeg
-rw-rw-r-- 1 20K Apr 21 21:00 spiderman-far-way-from-home.jpeg
-rw-rw-r-- 1 19K Apr 21 21:02 spiderman-homecoming.jpeg
-rw-rw-r-- 1 18K Apr 21 20:56 the-incredible-hulk.jpeg
-rw-rw-r-- 1 17K Apr 21 20:57 thor.jpeg
-rw-rw-r-- 1 26K Apr 21 21:02 thor-ragnarok.jpeg
-rw-rw-r-- 1 18K Apr 21 20:56 thor-the-dark-world.jpeg
[aashvi@aashvi-VirtualBox] ~/midtermS21/questions/midterm-q8/marvel-movies
$ ls *[!0-9].* -lhaGgt --color=always marvel-movies | sed -re 's/^[^]* //'
ls: cannot access 'marvel-movies': No such file or directory
1 23K Apr 21 21:02 black-panther.jpeg
1 24K Apr 21 21:02 avengers-endgame.jpeg
1 17K Apr 21 21:02 iron-man.jpeg
1 26K Apr 21 21:02 thor-ragnarok.jpeg
1 19K Apr 21 21:02 spiderman-homecoming.jpeg
1 21K Apr 21 21:01 avengers.jpeg
1 21K Apr 21 21:01 captain-america-civil-war.jpeg
1 20K Apr 21 21:00 spiderman-far-way-from-home.jpeg
1 19K Apr 21 21:00 captain-america-the-winter-soldier.jpeg
1 24K Apr 21 20:59 doctor-strange.jpeg
1 18K Apr 21 20:59 ant-man-and-the-wasp.jpeg
1 23K Apr 21 20:59 avengers-infinity-war.jpeg
1 19K Apr 21 20:58 ant-man.jpeg
1 18K Apr 21 20:58 captain-america-the-first-avenger.jpeg
1 20K Apr 21 20:57 captain-marvel.jpeg
1 17K Apr 21 20:57 thor.jpeg
1 23K Apr 21 20:57 avengers-age-of-ultron.jpeg
1 18K Apr 21 20:56 the-incredible-hulk.jpeg
1 18K Apr 21 20:56 thor-the-dark-world.jpeg
[aashvi@aashvi-VirtualBox] ~/midtermS21/question8/midterm-q8/marvel-movies
$

```

```

-rw-rw-r-- 1 18K Apr 21 20:56 thor-the-dark-world.jpeg
[aashvi@aashvi-VirtualBox] ~/midtermS21/questions/midterm-q8/marvel-movies
$ ls *[!0-9].* -lhaGgt --color=always marvel-movies | sed -re 's/^[^]* //'
ls: cannot access 'marvel-movies': No such file or directory
1 23K Apr 21 21:02 black-panther.jpeg
1 24K Apr 21 21:02 avengers-endgame.jpeg
1 17K Apr 21 21:02 iron-man.jpeg
1 26K Apr 21 21:02 thor-ragnarok.jpeg
1 19K Apr 21 21:02 spiderman-homecoming.jpeg
1 21K Apr 21 21:01 avengers.jpeg
1 21K Apr 21 21:01 captain-america-civil-war.jpeg
1 20K Apr 21 21:00 spiderman-far-way-from-home.jpeg
1 19K Apr 21 21:00 captain-america-the-winter-soldier.jpeg
1 24K Apr 21 20:59 doctor-strange.jpeg
1 18K Apr 21 20:59 ant-man-and-the-wasp.jpeg
1 23K Apr 21 20:59 avengers-infinity-war.jpeg
1 19K Apr 21 20:58 ant-man.jpeg
1 18K Apr 21 20:58 captain-america-the-first-avenger.jpeg
1 20K Apr 21 20:57 captain-marvel.jpeg
1 17K Apr 21 20:57 thor.jpeg
1 23K Apr 21 20:57 avengers-age-of-ultron.jpeg
1 18K Apr 21 20:56 the-incredible-hulk.jpeg
1 18K Apr 21 20:56 thor-the-dark-world.jpeg
[aashvi@aashvi-VirtualBox] ~/midtermS21/question8/midterm-q8/marvel-movies
$

```



```
Applications  Places

mv ~/midtermS21/question8/midterm-q8/marverl-movies/d[a-z]* DocStrange - Parrot Terminal

[aashvi@aashvi-VirtualBox] ~/midtermS21/question8/midterm-q8/marverl-movies
$ mv ~/midtermS21/question8/midterm-q8/marverl-movies/s[a-z]* Spiderman
[aashvi@aashvi-VirtualBox] ~/midtermS21/question8/midterm-q8/marverl-movies
$ mv ~/midtermS21/question8/midterm-q8/marverl-movies/a[n-t]* AntMan
[aashvi@aashvi-VirtualBox] ~/midtermS21/question8/midterm-q8/marverl-movies
$ mv ~/midtermS21/question8/midterm-q8/marverl-movies/a[v-z]* Avengers
[aashvi@aashvi-VirtualBox] ~/midtermS21/question8/midterm-q8/marverl-movies
$ mv ~/midtermS21/question8/midterm-q8/marverl-movies/b[a-z]* BlackPanther
[aashvi@aashvi-VirtualBox] ~/midtermS21/question8/midterm-q8/marverl-movies
$ mv ~/midtermS21/question8/midterm-q8/marverl-movies/c[a-z]* ^C
[aashvi@aashvi-VirtualBox] ~/midtermS21/question8/midterm-q8/marverl-movies
$ mv ~/midtermS21/question8/midterm-q8/marverl-movies/c[a-z]* CaptainAmerica
[aashvi@aashvi-VirtualBox] ~/midtermS21/question8/midterm-q8/marverl-movies
$ mv ~/midtermS21/question8/midterm-q8/marverl-movies/i[a-z]* Ironman
[aashvi@aashvi-VirtualBox] ~/midtermS21/question8/midterm-q8/marverl-movies
$ mv ~/midtermS21/question8/midterm-q8/marverl-movies/d[a-z]* DocStrange
[aashvi@aashvi-VirtualBox] ~/midtermS21/question8/midterm-q8/marverl-movies
$
[aashvi@aashvi-VirtualBox] ~/midtermS21/question8/midterm-q8/marverl-movies
$
```

```

[aashvi@aashvi-VirtualBox]~/midtermS21/question8/midterm-q8/marverl-movies
$mkdir Guardianofgalaxy
[aashvi@aashvi-VirtualBox]~/midtermS21/question8/midterm-q8/marverl-movies
$mv ~/midtermS21/question8/midterm-q8/marverl-movies/g[a-z]* Guardianofgalaxy
[aashvi@aashvi-VirtualBox]~/midtermS21/question8/midterm-q8/marverl-movies
$ls -dgo
drwxrwxr-x 12 4096 Apr 30 19:58 .
[aashvi@aashvi-VirtualBox]~/midtermS21/question8/midterm-q8/marverl-movies
$ls
AntMan Avengers BlackPanther CaptainAmerica DocStrange Guardianofgalaxy Hulk Ironman Spiderman Thor
[aashvi@aashvi-VirtualBox]~/midtermS21/question8/midterm-q8/marverl-movies
$ls -ldgo
drwxrwxr-x 12 4096 Apr 30 19:58 .
[aashvi@aashvi-VirtualBox]~/midtermS21/question8/midterm-q8/marverl-movies
$ls -l
total 40
drwxrwxr-x 2 aashvi aashvi 4096 Apr 30 19:38 AntMan
drwxrwxr-x 2 aashvi aashvi 4096 Apr 30 19:39 Avengers
drwxrwxr-x 2 aashvi aashvi 4096 Apr 30 19:39 BlackPanther
drwxrwxr-x 2 aashvi aashvi 4096 Apr 30 19:40 CaptainAmerica
drwxrwxr-x 2 aashvi aashvi 4096 Apr 30 19:48 DocStrange
drwxrwxr-x 2 aashvi aashvi 4096 Apr 30 19:58 Guardianofgalaxy
drwxrwxr-x 2 aashvi aashvi 4096 Apr 30 19:55 Hulk
drwxrwxr-x 2 aashvi aashvi 4096 Apr 30 19:41 Ironman
drwxrwxr-x 2 aashvi aashvi 4096 Apr 30 19:38 Spiderman
drwxrwxr-x 2 aashvi aashvi 4096 Apr 30 19:56 Thor
[aashvi@aashvi-VirtualBox]~/midtermS21/question8/midterm-q8/marverl-movies
$ls -ld
drwxrwxr-x 12 aashvi aashvi 4096 Apr 30 19:58 .
[aashvi@aashvi-VirtualBox]~/midtermS21/question8/midterm-q8/marverl-movies
$ls -lgo
total 40
drwxrwxr-x 2 4096 Apr 30 19:38 AntMan
drwxrwxr-x 2 4096 Apr 30 19:39 Avengers
drwxrwxr-x 2 4096 Apr 30 19:39 BlackPanther
drwxrwxr-x 2 4096 Apr 30 19:40 CaptainAmerica
drwxrwxr-x 2 4096 Apr 30 19:48 DocStrange
drwxrwxr-x 2 4096 Apr 30 19:58 Guardianofgalaxy
drwxrwxr-x 2 4096 Apr 30 19:55 Hulk
drwxrwxr-x 2 4096 Apr 30 19:41 Ironman
drwxrwxr-x 2 4096 Apr 30 19:38 Spiderman
drwxrwxr-x 2 4096 Apr 30 19:56 Thor
[aashvi@aashvi-VirtualBox]~/midtermS21/question8/midterm-q8/marverl-movies
$

```

Question 9

```
Applications  Places

ls --color=auto midterm-q9 - Parrot Terminal

ls --color=auto midterm-q9 - Parrot Terminal
man ls - Parrot Terminal

[aashvi@aashvi-VirtualBox] ~/midtermS21/question9
$ wget https://robertalberto.com/cid106/midtermfiles/vgc.tar.xz
--2021-04-30 23:20:21-- https://robertalberto.com/cid106/midtermfiles/vgc.tar.xz
Resolving robertalberto.com (robertalberto.com)... 34.66.0.162
Connecting to robertalberto.com (robertalberto.com)|34.66.0.162|:443... connected.
HTTP request sent, awaiting response... 404 Not Found
2021-04-30 23:20:21 ERROR 404: Not Found.

[aashvi@aashvi-VirtualBox] ~/midtermS21/question9
$ ls
[aashvi@aashvi-VirtualBox] ~/midtermS21/question9
$ wget https://robertalberto.com/cis106/midtermfiles/vgc.tar.xz
--2021-04-30 23:20:45-- https://robertalberto.com/cis106/midtermfiles/vgc.tar.xz
Resolving robertalberto.com (robertalberto.com)... 34.66.0.162
Connecting to robertalberto.com (robertalberto.com)|34.66.0.162|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 151728 (148K) [application/x-xz]
Saving to: 'vgc.tar.xz'

vgc.tar.xz                100%[=====] 148.17K   917KB/s   in 0.2s
2021-04-30 23:20:46 (917 KB/s) - 'vgc.tar.xz' saved [151728/151728]

[aashvi@aashvi-VirtualBox] ~/midtermS21/question9
$ mkdir midterm-q9
[aashvi@aashvi-VirtualBox] ~/midtermS21/question9
$ ls
midterm-q9  vgc.tar.xz
[aashvi@aashvi-VirtualBox] ~/midtermS21/question9
$ tar -xf vgc.tar.xz --directory midterm-q9
[aashvi@aashvi-VirtualBox] ~/midtermS21/question9
$ ls
midterm-q9  vgc.tar.xz
[aashvi@aashvi-VirtualBox] ~/midtermS21/question9
$ ls midterm-q9
videogame-consoles
[aashvi@aashvi-VirtualBox] ~/midtermS21/question9
$
```

The screenshot shows a Parrot Terminal window with the title 'mkdir 1980 1990 2000 2010 2020 - Parrot Terminal'. The terminal displays the following commands and output:

```

[aashvi@aashvi-VirtualBox] ~/midtermS21/question9/midterm-q9/videogame-consoles
$ls -x
Nintendo-64-1996.jpeg      nintendo-wii-2006.jpeg      Playstation-4-2013.jpeg      Xbox-One-2013.jpeg
nintendo-color-tv-game-1977-1980.jpeg  nintendo-wii-u-2012.jpeg  Playstation-5-2020.jpeg      Xbox-series-X-2020.jpg
nintendo-entertainment-system-1983.jpeg  Playstation-1-1994.jpeg  Super-Nintendo-Entertainment-System-1990.jpeg
Nintendo-GameCube-2001.jpeg      Playstation-2-2000-.jpeg  X-box-2001.jpeg
Nintendo-Switch-2017.jpeg      Playstation-3-2006.jpeg  Xbox-360-2005.jpeg

[aashvi@aashvi-VirtualBox] ~/midtermS21/question9/midterm-q9/videogame-consoles
$mkdir 1980 1990 2000 2010 2020
[aashvi@aashvi-VirtualBox] ~/midtermS21/question9/midterm-q9/videogame-consoles
$mv ~/midtermS21/question9/midterm-q9/[]* 1980

```

Question 10

1. Which was the hardest question? Why?

According to me the hardest question was question 4 because i found it complicated to organize those files.

2. Which was the easiest question? Why?

The easiest question was question 2, as it was easy to create directories and organizing files into respective directories.

3. What could have made this midterm easier?

less complicated questions or provided more info have made this midterm easier

4. On a scale from 1 to 5 (1 meaning nothing at all and 5 meaning a lot more than you thought), how much have you learned about Linux? **because linux was just an OS for me before this class, now i know a lot more things about linux**

5. In your opinion, do you think this format of the examination is better or worse than the traditional exams? A traditional exam is in the form of true or false questions and selects the right answer or short explanations **in my opinion this format is way better than traditional examination because**

we learn a lot more in this format whereas in traditional examination format one cannot learn a lot they can only have theoretical knowledge instead of practical knowledge.