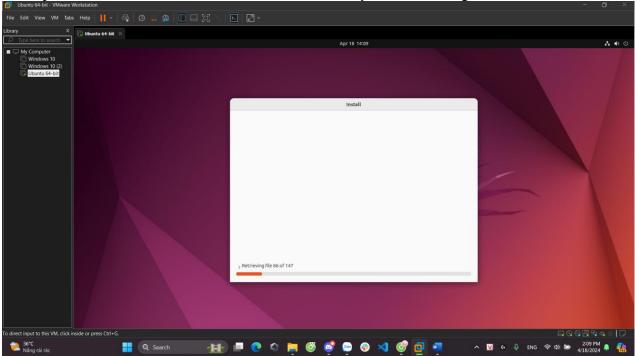
Practice Assignment 1

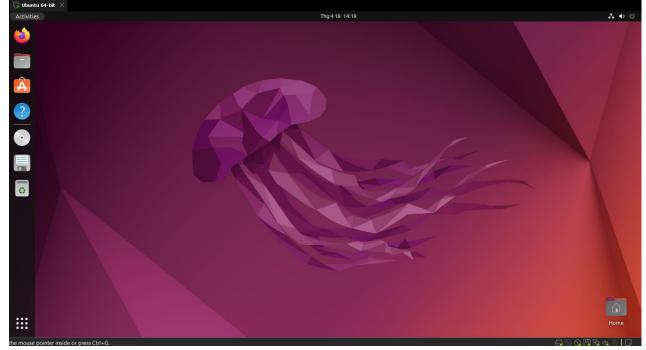
Capture the screen shots of the results for the following questions. Save each screen shot as the question number. Save all the screen shots in a word file and upload the file into Moodle.

Total Points: 100

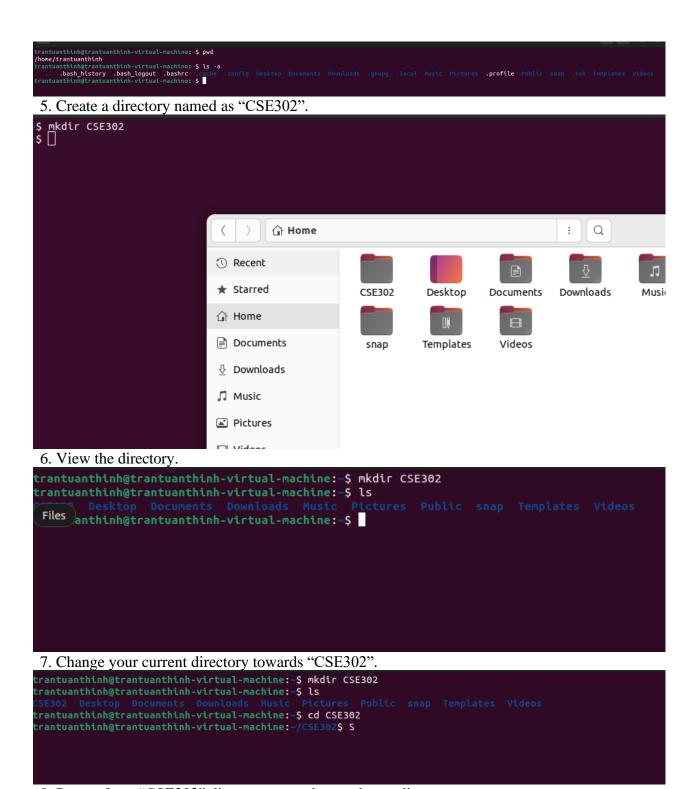
1. Capture a screenshot of VMWare Workstation Player after running it.



2. Capture the screenshot of **Ubuntu** after it starts successfully. (10 points)



- 3. List all contents of your current working directory.
- 4. List all contents of your current working directory, including hidden files.



8. Return from "CSE302" directory towards your home directory.

```
To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

trantuanthinh@trantuanthinh-virtual-machine:~$ cd CSE302
trantuanthinh@trantuanthinh-virtual-machine:~/CSE302$ cd..

cd..: command not found
trantuanthinh@trantuanthinh-virtual-machine:~/CSE302$ cd ..
trantuanthinh@trantuanthinh-virtual-machine:~$
```

- 9. Create another directory named as "SCIT".
- 10. View the directory.
- 11. Change your current directory towards "SCIT".

```
trantuanthinh@trantuanthinh-virtual-machine:~$ mkdir SCIT
trantuanthinh@trantuanthinh-virtual-machine:~$ ls
CSE302 Desktop Documents Downloads Music Pictures Public SCIT snap Templates Videos
trantuanthinh@trantuanthinh-virtual-machine:~$ cd SCIT
trantuanthinh@trantuanthinh-virtual-machine:~/SCIT$
```

12. Go to your home directory, and display full path of your current directory.

```
trantuanthinh@trantuanthinh-virtual-machine:~/SCIT$ cd ~ trantuanthinh@trantuanthinh-virtual-machine:~$ pwd /home/trantuanthinh trantuanthinh@trantuanthinh-virtual-machine:~$
```

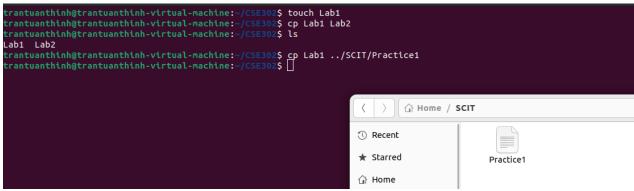
13. Go to directory "CSE302" and create a file named as "Lab1".

```
trantuanthinh@trantuanthinh-virtual-machine:~/CSE302$ touch Lab1
trantuanthinh@trantuanthinh-virtual-machine:~/CSE302$
```

14. Copy "Lab1" towards another file named as "Lab2" in the same directory.

```
trantuanthinh@trantuanthinh-virtual-machine:~/CSE302$ touch Lab1
trantuanthinh@trantuanthinh-virtual-machine:~/CSE302$ cp Lab1 Lab2
trantuanthinh@trantuanthinh-virtual-machine:~/CSE302$ ls
Lab1 Lab2
trantuanthinh@trantuanthinh-virtual-machine:~/CSE302$
```

15. Copy "Lab1" towards another file named as "Practice1" in another directory "SCIT".



- 16. Rename the file "Lab1" as "Practice Lab 1".
- 17. Delete the file "Lab2".

```
trantuanthinh@trantuanthinh-virtual-machine:~/CSE302$ mv Lab1 "Practice Lab 1"
trantuanthinh@trantuanthinh-virtual-machine:~/CSE302$ ls
Lab2 'Practice Lab 1'
trantuanthinh@trantuanthinh-virtual-machine:~/CSE302$ rm Lab2
trantuanthinh@trantuanthinh-virtual-machine:~/CSE302$ ls
'Practice Lab 1'
trantuanthinh@trantuanthinh-virtual-machine:~/CSE302$
```

18. Delete the directory "SCIT".

```
trantuanthinh@trantuanthinh-virtual-machine:~$ rm -r SCIT
trantuanthinh@trantuanthinh-virtual-machine:~$ ls
CSE302 Desktop Documents Downloads Music Pictures Public snap Templates Videos
trantuanthinh@trantuanthinh-virtual-machine:~$
```

19. Read documentation on the command "ls".

```
User Commands

LS(1)

NAME

Ls - List directory contents

SYNOPSIS

Ls [OFILON]... [File]...

DESCRIPTION

List information about the FILEs (the current directory by default). Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.

Mandatory arguments to long options are mandatory for short options too.

-a, --all

do not lignore entries starting with .

-A, --almost-all

do not list implied . and ..

--author

with -l, print the author of each file

-b, --scape

print C-style escapes for nongraphic characters

--block-size-size

with -l; scale sizes by SIZE when printing then; e.g., '--block-size=h'; see SIZE format below

-B, --ignore-backups

do not list implied entries ending with -

-c with -lit sort by, and show, ctime (time of last modification of file status information); with -l: show ctime and sort by name; otherwise: sort by ctime, new-
est first

-C list entries by columns

--color(selfED)

--colo
```

20. Search document for the matching command that have something do with "sort".

```
alphasort (3)
                     - scan a directory for matching entries
apt-sortpkgs (1)
                     - Utility to sort package index files
                     - binary search of a sorted array
bsearch (3)
bunzip2 (1)
                     - a block-sorting file compressor, v1.0.8
bzip2 (1)
                     - a block-sorting file compressor, v1.0.8
comm (1)
                     - compare two sorted files line by line
qsort (3)
                     - sort an array
qsort_r (3)
                     - sort an array
sort (1)

    sort lines of text files

sort-dctrl (1)
                     - sort Debian control files
tsort (1)
                     - perform topological sort
versionsort (3)
                     - scan a directory for matching entries
XConsortium (7)
                     - X Consortium information
```

21. Install a software package named as "build-essential".

```
Setting up napages-dev (5.10-lubuntui) ...

Setting up lto-disabled-list (24) ...

Setting up librile-fortilock-perl (0.22-3build7) ...

Setting up librile-fortilock-gerl (0.28-4build7) ...

Setting up librile-fortilock-gerl (0.28-1build7) ...

Setting up librile-fortilock-gerl (1.28-1build7) ...

Setting up librile-fortilock-gerl (1.42-2build7) ...

Setting up librile-fortilock-gerl (1.42-2build7) ...

Setting up librile-fortilock-gerl (1.42-2build7) ...

Setting up librile-fortilock-gerl (1.21-1build7) ...

Setting up librile-fortilock-gerl (1.24-27-1) ...

Setting up libri
```

22. Print the version of "gcc" compiler.

```
trantuanthinh@trantuanthinh-virtual-machine:~$ gcc --version
gcc (Ubuntu 11.4.0-1ubuntu1~22.04) 11.4.0
Copyright (C) 2021 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

trantuanthinh@trantuanthinh-virtual-machine:~$
```

23. Download the following file "https://cdn.kernel.org/pub/linux/kernel/v4.x/linux-4.17.2.tar.xz" from internet.

24. Can you view the file inside your current directory?

```
linux-4.17.2/Documentation/btmrvl.txt
linux-4.17.2/Documentation/bus-devices/
linux-4.17.2/Documentation/bus-devices/ti-gpmc.txt
linux-4.17.2/Documentation/bus-virt-phys-mapping.txt
linux-4.17.2/Documentation/cachetlb.txt
linux-4.17.2/Documentation/cdrom/
linux-4.17.2/Documentation/cdrom/00-INDEX
linux-4.17.2/Documentation/cdrom/Makefile
linux-4.17.2/Documentation/cdrom/cdrom-standard.tex
linux-4.17.2/Documentation/cdrom/ide-cd
linux-4.17.2/Documentation/cdrom/packet-writing.txt
linux-4.17.2/Documentation/cgroup-v1/
linux-4.17.2/Documentation/cgroup-v1/00-INDEX
linux-4.17.2/Documentation/cgroup-v1/blkio-controller.txt
linux-4.17.2/Documentation/cgroup-v1/cgroups.txt
linux-4.17.2/Documentation/cgroup-v1/cpuacct.txt
linux-4.17.2/Documentation/cgroup-v1/cpusets.txt
linux-4.17.2/Documentation/cgroup-v1/devices.txt
linux-4.17.2/Documentation/cgroup-v1/freezer-subsystem.txt
linux-4.17.2/Documentation/cgroup-v1/hugetlb.txt
linux-4.17.2/Documentation/cgroup-v1/memcg_test.txt
linux-4.17.2/Documentation/cgroup-v1/memory.txt
linux-4.17.2/Documentation/cgroup-v1/net_cls.txt
linux-4.17.2/Documentation/cgroup-v1/net_prio.txt
linux-4.17.2/Documentation/cgroup-v1/pids.txt
linux-4.17.2/Documentation/cgroup-v1/rdma.txt
linux-4.17.2/Documentation/cgroup-v2.txt
linux-4.17.2/Documentation/circular-buffers.txt
linux-4.17.2/Documentation/clearing-warn-once.txt
linux-4.17.2/Documentation/clk.txt
linux-4.17.2/Documentation/cma/
linux-4.17.2/Documentation/cma/debugfs.txt
```

25. Edit the file "LabInstruction.txt".

Place the following text in "LabInstruction.txt" and save it.

The laboratory courses offered cover a wide range of disciplines and methodologies aimed at providing students with the knowledge and practical skills required for advanced studies and future careers in biotechnology, biomedicine, and academia.



28. Write the output of "man wc" towards a new file "docs_for_wc_program.txt". [Hints: You

need to create the file "docs for wc program.txt" first.]

29. View the content of the file "docs for wc program.txt".

```
1 1 8 LabInstruction.txt
trantuanthinh@trantuanthinh-virtual-machine:~$ cat LabInstruction.txt
test111
trantuanthinh@trantuanthinh-virtual-machine:~$ man wc
trantuanthinh@trantuanthinh-virtual-machine:~$ man wc > docs_for_wc_program.txt
trantuanthinh@trantuanthinh-virtual-machine:~$ cat docs_for_wc_program.txt
                                        User Commands
WC(1)
NAME
      wc - print newline, word, and byte counts for each file
SYNOPSIS
       wc [OPTION]... [FILE]...
      wc [OPTION]... --files0-from=F
DESCRIPTION
       Print newline, word, and byte counts for each FILE, and a total line if more than
       FILE is specified. A word is a non-zero-length sequence of characters delimited
      white space.
      With no FILE, or when FILE is -, read standard input.
```

30. Append the output of "man ls" towards the file "docs_for_wc_program.txt". Again, view the content of the file.

```
trantuanthinh@trantuanthinh-virtual-machine:~$ man ls >> docs for wc program.txt
trantuanthinh@trantuanthinh-virtual-machine:~$ cat docs for wc program.txt
LS(1)
                                        User Commands
                                                                                         LS
NAME
       ls - list directory contents
SYNOPSIS
       ls [OPTION]... [FILE]...
DESCRIPTION
       List information about the FILEs (the current directory by default). Sort entries
       phabetically if none of -cftuvSUX nor --sort is specified.
       Mandatory arguments to long options are mandatory for short options too.
       -a, --all
              do not ignore entries starting with .
 Trash
       -A, --almost-all
              do not list implied . and ..
       --author
              with -l, print the author of each file
       -b, --escape
              print C-style escapes for nongraphic characters
```

31. Create a text file named "mylist.txt" that contains the following lines: cat

dog horse cow

Observe that the animals are not listed in alphabetical order.

What do if you need to list them in order? [Hints: You can pull the contents of the file into the *sort* command by using the < operator.

```
trantuanthinh@trantuanthinh-virtual-machine:~$ sort < mylist.txt

cat

cow

dog

horse

trantuanthinh@trantuanthinh-virtual-machine:~$
```