

EXPERIMENT- 1.1

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Section/Group: 21AML-12A

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Subject Name: Operating System

Subject Code: 21CSH-242

1. Experiment Title/Problem Statement:

Introduction to LINUX and its basic commands.

2. Requirements: VMware Workstation/Oracle VirtualBox, UBUNTU

3. Description: VMware is a product which enables users to create and run VMs directly on a single Windows. Ubuntu is a free desktop operating system. It is based on Linux, a massive project that enables millions of people around the world to run machines powered by free and open software on all kinds of devices.

Basic Commands of Linux are:

- **mkdir command:** The mkdir command is used to create a new directory under any directory.

Syntax: mkdir<directory name> **Example:**

```
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ mkdir file
```

- **ls command:** The ls command is used to display a list of content of a directory. **Syntax:** ls **Example:**

```
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ ls  
file
```

- **cd command:** The cd command is used to change the current directory. **Syntax:** cd<directory name> **Example:**

```
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop$ cd linux  
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ cd file
```

- **pwd command:** The pwd command is used to display the location of the current working directory. **Syntax:** pwd **Example:**

- `bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ pwd`
`/mnt/c/users/ramra/Desktop/linux`

- **touch command:** The touch command is used to create empty files. We can create multiple empty files by executing it once. **Syntax:** touch<file name>

touch<file1> <file2>... **Example:**

```
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ touch file1.txt file2.txt
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ ls
file  file1.txt  file2.txt
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$
```

- **cat command:** The cat command is a multi-purpose utility in the Linux system. It can be used to create a file, display content of the file, copy the content of one file to another file, and more.

To create a file, execute it as follows:

Syntax: cat > <file name>

To display the content, write

Syntax: cat <file name> **Example:**

```
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ cat >file1.txt
iam sri surya prakash reddy
^C
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ cat file1.txt
iam sri surya prakash reddy
```

- **cp command:** The cp command is used to copy a file or directory.

Syntax: cp <source file name> <destination file name> **Example:**

```
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ cp file1.txt file2.txt
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ cat file2.txt
iam sri surya prakash reddy
```

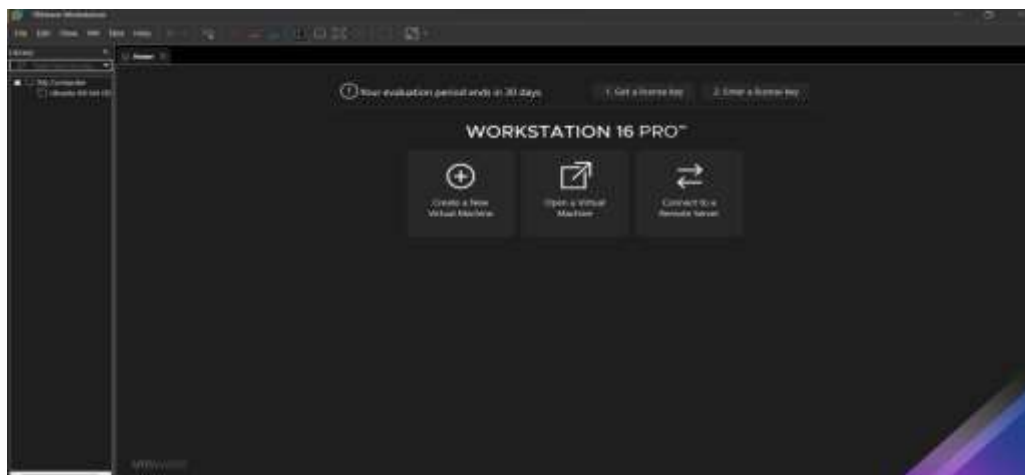
4. Steps for experiment/practical:

Steps to Install Linux are:

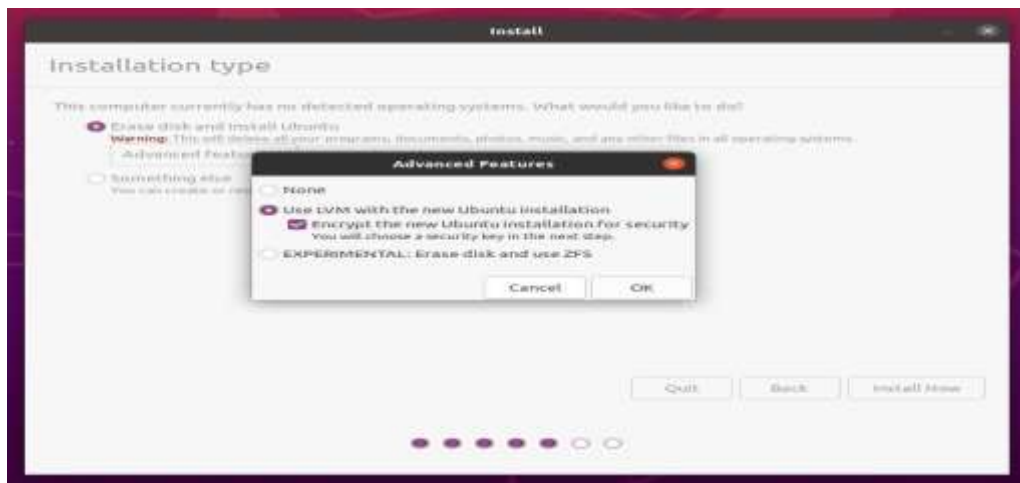
1. The first step is to Download Ubuntu.



2. Then in your downloaded VMware workstation pro, click on the option Create a Virtual Machine.



3. Then import that downloaded ubuntu iso file into that VMware and then proceed with the installation setup.



4. Fill up your location and create your login details, your username, your password.



5. Complete the installation.



6. And, finally you have successfully installed UBUNTU on your machine.



5. Snapshots of Commands Execution:

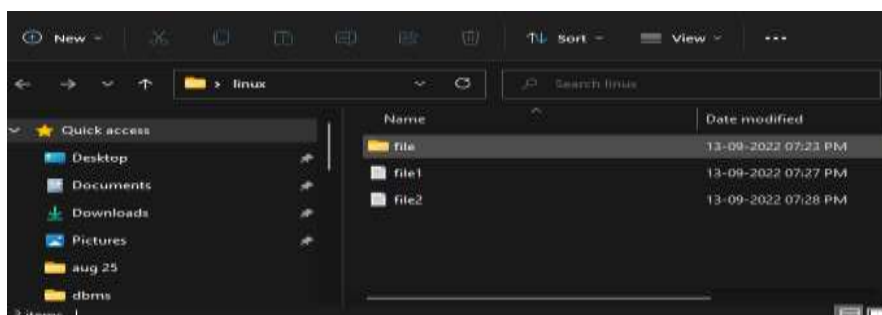

```
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop$ mkdir linux
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop$ cd linux
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ cd file
-bash: cd: file: No such file or directory
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ mkdir file
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ ls
file
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ pwd
/mnt/c/users/ramra/Desktop/linux
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ touch file1.txt file2.txt
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ ls
file file1.txt file2.txt
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ cat >file1.txt
iam sri surya prakash reddy
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ cat file1.txt
iam sri surya prakash reddy
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ cp file1.txt file2.txt
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$ cat file2.txt
iam sri surya prakash reddy
bimbisara@LakshayRAM:/mnt/c/users/ramra/Desktop/linux$
```

6. Result/Output/Writing Summary:

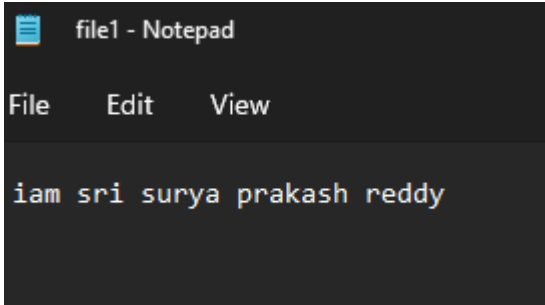
a) Shows when we have created a new directory named alpha.



b) Shows when we have created files under alpha for further operations.



c) Shows the content which the file file2.txt contains.



```
file1 - Notepad
File Edit View
iam sri surya prakash reddy
```

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			