Practical 1	Introduction to LINUX environment and related system programming

a) Installation and Configuration of Linux.

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Step 1 :
- Download Kali Linux ISO - Download the ISO image file of Kali Linux from its official website, ie, https://www.Kali.org/downloads/. Do not downlod it from any other website because it may contain malware. Here, we are going to download Kali Linux 64-Bit

Step 2 :
- You should downlod any bootable image file processing tool, which allows you to create a bootable USB drive.

Step 3 :
- Plug your USB drive into your Windows PC and remember the drive name associated with it (e.g., "H:\");

Step 4 :
- Launch Rufus and choose the Kali Linux ISO file that you want to copy on the USB drive. Match the name of the device selected, which corresponds to the name of the USB device you inserted.

Step 5:

- Click the Start button to overwrite the contents of the USB device, as shown in the figure.

Step 6:

- Once the status bar is completed 100%, click on close and safely remove the USB drive from the PC. You can now use your USB drive to boot Kali Linux.

Step 7:

- Insert your bootable USB drive to your PC and start your PC. Press "Esc" on the first prompt to enter into the Startup Menu.

Step 8:

- Press F9 to enter into the Boot Device option. It will redirect you to the Boot Manager. These options may vary from device to device.

Step 9:

- Select USB Hard Drive to boot from your bootable USB Drive. It will redirect you to the Kali linux Live Boot Menu.

Step 10:

- Select Live System and press enter to boot Kali Linux

b] Install VMware / VirtualBox if working on operation system.

Step 1 :
Launch VirtualBox click in file and select import option in the drop-down menus.

Step 2 :
Browse your file that you downloaded and select it to import. The file ends with .ova extension.

Step 3 :
Now you can see the virtual machine settings that you can configure according to your requirements and system configuration. You can also choose to go with default settings.
Choose a different drive path with the largest free space in your system. You shall not go with C:/ Drive as your system partition belongs to that drive and in case of any uncertainty, your system may get corrupted.

Step 4 :
After the import is complete launch your Kali machine, install the VirtualBox extension pack to avoid any other errors.