**EXPERIMENT NO. 1**

**INSTALLATION OF UBUNTU OPERATING SYSTEM**

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| **AIM:** | To install UBUNTU Operating System. |
| **OBJECTIVE:** | To introduce basic Unix general purpose commands. |
| **REQUIREMENT:** | Computer Machine, UBUNTU ISO CD, 5GB Storage Space |
| **THEORY:** | The UBUNTU desktop is easy to use, easy to install and includes everything we need to run our organization, school, home or enterprise. It's also open source, secure, accessible and free to download. In this tutorial, we're going to install UBUNTU desktop onto our computer, using either our computer's DVD drive or a USB flash drive.  Now let’s start **installing UBUNTU Linux.**  **Step 1**: Insert the UBUNTU cd in the cd drive and boot the computer from cd. First of all we will be prompted to select language. Select English or other language according to our preferences.  **[installing ubuntu linux](http://listthemout.com/wp-content/uploads/2011/04/installing-ubuntu-linux.png)**  **Step 2**: Now we will see UBUNTU menu, we can choose **Try UBUNTU without installing** option to try UBUNTU without actually installing it on our hard drive. For installing UBUNTU choose the second option **Install UBUNTU**.  **[install ubuntu](http://listthemout.com/wp-content/uploads/2011/04/install-ubuntu.png)**  **Step 3**: UBUNTU will start now initialize and after few minutes we can see the installation wizard.  **[select language](http://listthemout.com/wp-content/uploads/2011/04/select-language.png)**  **Step 4**: Click Forward and it will check the **minimum requirements for running UBUNTU** on our PC. If everything is fine we can see green colored tick marks. We can also select to download updates while installing and install some third party software. After selecting the things we need to click forward.  **[ubuntu requirements](http://listthemout.com/wp-content/uploads/2011/04/ubuntu-requirements.png)**  **Step 5**: Now we can choose either erase and use entire disk option or s**pecify partitions manually** option. We can choose the 1st option if we just want Linux to exist in our system. Else select second option. Now it will display the free space available for our pc.  **[allocate drive space](http://listthemout.com/wp-content/uploads/2011/04/allocate-drive-space.png)**  Select free space and click on Add option to create a new partition and choose partition type as primary, size around 70% of the free space available or choose anything like 10,000 or 20,000mb, use as ext3 journaling file system and select mount point as /.  **[create partition in ubuntu](http://listthemout.com/wp-content/uploads/2011/04/create-partition-in-ubuntu.png)**  Now again select free space from the table and click add option. Now select size to be around 300mb, use as ext3 journaling file system and select mount point as /boot.  **[creat partition 2](http://listthemout.com/wp-content/uploads/2011/04/creat-partition-2.png)**  Now again select free space from the table and click add option. Now select size to be around twice the size of our RAM that is around 1000mb if our RAM size is 512mb and select use as swap area and click ok.  **[create swap space](http://listthemout.com/wp-content/uploads/2011/04/create-swap-space.png)**  **[allocate drive space](http://listthemout.com/wp-content/uploads/2011/04/allocate-drive-space-1.png)**  **Step 6**: Click Install now button and then the wizard will ask our location. Select our location and click forward.  **[select location](http://listthemout.com/wp-content/uploads/2011/04/select-location.png)**  **Step 7**: While we are selecting these options wizard will continue to copy files. Now select our desired keyboard layout and click forward.  **[select keyboard layout](http://listthemout.com/wp-content/uploads/2011/04/select-keyboard-layout.png)**  **Step 8**: Now fill in the details about ourselves. Fill the name, computer name, choose a username and create a password and click forward and let UBUNTU copy all the essential files.  **[copying files](http://listthemout.com/wp-content/uploads/2011/04/copying-files.png)**  **Step 9**: After all files have been copied and installed UBUNTU will display a message saying that installation complete and click on restart button to restart our computer. Remove the cd from the cd drive.  **[installation complete](http://listthemout.com/wp-content/uploads/2011/04/installation-complete.png)**  **Step 10**: After restarting our pc wait for the UBUNTU to load and then it will display the login screen. Choose the user and enter password and click login.  **[login](http://listthemout.com/wp-content/uploads/2011/04/login.png)**  **[installation finish](http://listthemout.com/wp-content/uploads/2011/04/instalaltion-finish.png)** |
| **OUTCOME:** | The installation of UBUNTU Operating System has helped us to   1. Identify the basic UNIX general purpose commands and 2. Apply and change the ownership and file permissions using advance UNIX commands. |
| **CONCLUSION:** | We successfully installed the UBUNTU Operating System on our machine. |