

traceroute www.google.com  
traceroute www.google.com

- If address of your machine using IP address  
use ping to check the network connectivity to  
your machine

~~changing is required~~

E - Expiration date  
M - Minimum number of days before password is valid  
N - Number of days before password is passed  
I - Account inactive  
W - Number of days before password is valid

W - Number of days before changing password

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[jeba@jeba-VirtualBox ~]\$ sudo userdel user1  
[jeba@jeba-VirtualBox ~]\$ sudo useradd user1  
[jeba@jeba-VirtualBox ~]\$ su user1  
[jeba@jeba-VirtualBox ~]\$ No password entry for user 'user1'.

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```
[jeber@jeber-VirtualBox ~] $ sudo useradd user1
[jeber@jeber-VirtualBox ~] $ sudo [password] for jeber:
[jeber@jeber-VirtualBox ~] $ sudo useradd user2
[jeber@jeber-VirtualBox ~] $ sudo [password] for jeber:
Enter new UNIX password:
Re-type new UNIX password:
passwd: password updated successfully
[jeber@jeber-VirtualBox ~] $
```

```
# Please consult adding local content in /etc/sudoers.d/ instead of
# directly modifying this file.
# See the man page for details on how to write a sudoers file.
# For details
# see /etc/sudoers
# or /etc/pam.d/sudo
# secure_gated /var/local/sbla:/usr/local/bla:/usr/sbla:/usr/bla:/
```

THIS IS OUR LINUX EXAMPLE  
HELLO WORLD  
WELCOME  
WEBSITE  
THIS IS THE EDITOR  
THANK YOU

- ፳፻፲፭-፳፻፲፭-፳፻፲፭ -

THE SETTING

Show the line number



word/globed to be replaced / || new

use all essential commands like search/ replace, highlight, show the line numbers

action scroll forward scroll backward scroll half page backword

words to end of word words to begining of word words to first character of line

clear

key

action

word beginning

~~moves cursor up~~  
~~moves cursor down~~  
~~moves cursor left~~  
~~moves cursor right~~

Y  
N  
I  
K  
Key

movement in four directions

by using arrow

- 1) search in a file.
- 2) to find a word (forward search) press / followed by the word to search
- 3) modify in a file, can use editor type o.
- 4) to search a file, enter terminal type vi followed by file name
- 5) to execute a file, enter file name
- 6) modifying a file
- 7) search, modify, search and navigate a file in editor
- 8) Linux Editors (vi)

Practical no 7

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to learn all essential commands like save, copy, paste, highlight, show line numbers.

Key	Action
Ctrl-a	Moves last page back and
Ctrl-d	Moves half page back
Ctrl-b	Moves half page forward
Ctrl-f	Moves forward (forward search) press / followed by the word to search
Ctrl-g	Moves to first character of a line
Ctrl-h	Moves to the end of line

Scrolling

Key	Action
Shift-left	Moves backward to the beginning of the word
Shift-right	Moves forward to the end of the word
Shift-home	Moves back to the beginning of the word
Shift-end	Moves to the end of line

word navigation

Key	Action
Alt-left	Moves cursor left
Alt-right	Moves cursor right
Alt-down	Moves cursor down
Alt-up	Moves cursor up

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```
jeba@jeba-VirtualBox:~$ alias m="mkdtr new"
jeba@jeba-VirtualBox:~$ ls
jeba@jeba-VirtualBox:~$ ls
Desktop . Music Pictures Templates
Documents Examples desktop jj new public Videos
Desktop . Downloads
```

```
jeba@jeba-VirtualBox:~$ history
1 who
2 whoami
3 who -l
4 clear
5 w
6 w -s
7 w -h
8 w -f
9 clear
10 cat /etc/shadow
11 sudo cat /etc/shadow
12 clear
13 sudo cat /etc/passwd
14 pwd
15 clear
16 history
17 who -l
18 login tty1 2020-01-15 20:38
19 jeba@jeba-VirtualBox:~$
```

Actual number of days to warn user before expiring password.

The number of days since January 1, 1970 that can occur until this date is displayed.

A password field for possible future us.

Fields field in a password entry is separated with "|||colon characters and one to three fields.

username to a character. each sensitive usually all characters

Number used id. This is assigned by the database script. with

these this field, plus the following groups field, to identify

which files belong to user

full name of user. I'm not sure what it maximum

length for this field is, but it's likely to keep it accessible.

user's home directory usually /home/username will be

personal files, web pages, mail, downloading etc. will be stored here.

, user's shell .. currently, often set to "bin/bash" if

provide access to the bash shell

```
joe@joe-VirtualBox:~$ sudo cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin/nologin
bin:x:2:2:bin:/bin/nologin
sys:x:3:3:sys:/bin/nologin
games:x:4:4:games:/var/games/nologin
gdm:x:5:5:gdm:/var/gdm/nologin
dpm:x:6:6:dpm:/var/dpm/nologin
nalan:x:10:10:nalan:/var/www/nologin
svcs:x:11:11:svcs:/var/www/nologin
mem:x:15:15:mem:/var/www/nologin
games:x:19:19:games:/var/games/nologin
nalan:x:61:61:nalan:/var/www/nologin
dpm:x:77:77:dpm:/var/dpm/nologin
svcs:x:55:55:svcs:/var/www/nologin
bin:x:22:22:bin:/bin/nologin
root:x:0:0:root:/root:/bin/bash
```

```
joe@joe-VirtualBox:~$ sudo cat /etc/shadow
root:$6$99999999$:
```

Scanned with CamScanner





Aim: File operations

### Practical no. 5

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1. Explore mounted file system on your computer
2. What are the different ways of exploring mounted file system on Linux?
3. Copying text from files → mount
4. Up command, mv command

Find the password file b/w sub directories

level 2 \$ 4

# find maxdepth 3 max depth . name file  
/ user / bin / password

/ etc / passwd

d) Create a symbolic link to the file you found in step.

# ln -s file1 file2

e) Create an empty file example.txt a move it to tmp directory using relative pathname  
# touch example.txt  
# mv example.txt /tmp

delete the files moved to /tmp in previous step by absolute method

# rm /tmp /example.txt .

Find the location of ls, ps, bcsh commands  
# whereis ls

ls : /bin / ls /user /share /man /man1 /ls 1.g2  
# whereis ps

ps : /bin /ps /user /share /man /man1 /ps.r.g2  
# whereis bcsh

bcsh : /bin /bcsh /etc /bcsh . bcsh & /user/share/man/man1/bcsh

Precious - 4

四

command the apprehenders  
of ~~Intend~~ new package or your system.  
so do EPP - get ~~your~~ (protective name)  
and the ~~protective~~ new package or your system.  
b) member as ~~protective~~ it is called  
and the passed rule in writing find come  
if find the passed rule in writing find come  
and the ~~protective~~ extreme (package name).  
e) if you get ~~your~~ extreme (package name)  
and the ~~protective~~ extreme (package name).  
d) find the passed rule in writing find come  
if find the passed rule in writing find come  
and the ~~protective~~ extreme (package name).  
c) find the passed rule in writing find come  
if find the passed rule in writing find come  
and the ~~protective~~ extreme (package name).  
b) find the passed rule in writing find come  
if find the passed rule in writing find come  
and the ~~protective~~ extreme (package name).  
a) find the passed rule in writing find come  
if find the passed rule in writing find come  
and the ~~protective~~ extreme (package name).  
1. user (share doc/nss-dap-25) pen.d  
1. user/pbm/passed  
1. ehr/pen.d/Passed  
1. ehr/pen.d/Passed

Find the directory passed file under root directory below.

• ~~etc / passwd~~  
• ~~etc / bin / passwd~~  
• ~~etc / etc / passwd~~

and 1994 def + 3-NH<sub>2</sub>  
and bin / possmd  
etc / posm - possmd

~~and I can't help it~~ I am a name

~~and I put front door up~~ + 3-nd one

pass / up / on /

pm send m: word / 212 / 3

10-00167-014

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*Journal of Clinical Anesthesia*, Vol. 12, No. 6, December 2000, pp. 521-522  
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~~part + (part + w) (D-Del) bulletin commands see~~

(c) 2011

show every nucleating particle in a row.  
here to choose which one you want to use much  
you can pass all section in the main because  
which direction appears in section 3). In cases like this  
(as in commoned a particle in section 1 as a  
atoms like here different pages in different section  
which other include additional sections because the length  
discrepancies is common to monolithic section to that specific

monoclonal selection of K manna



Aim - Utilization of grep man commands Documentation :-

a) Finding info documentation from the command line is bring up the page for the grep command bring up the usage section

Ans:- To find info about any command, the command is used. Its syntax of info command is info (command name) opened terminal ( $\text{Ctrl} + \text{T}$ ) and type info grep after typing this command following <P> will be displayed onto your screen.

You can also scroll through your pages using (space = <P>) if backspace : down key so more summarized form of showing info is the man command. The command is same as C info, but required data.

Output:- This is the info menu. A few useful info command.

- i) q quits
- ii) lists all the info commands.
- iii) Starts for info tutorial
- iv) Visits the text info manual etc.

b) Finding man pages from the shell line : bring up the man page for ls command and scroll down to the eg section

Type: cd build  
sudo make uninstall

This does not remove everything that was installed  
but it removes major executable like g++  
and .pp ... contained in that directory.

22/01

## Practical - 2

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Aim: Installing and removing software

- ① Install gcc package, verify that it runs and then remove it.

Step 1: First type 'gcc -v' to know if you have already installed gcc compiler or not. If the output is like this it means that you don't have gcc installed.

Step 2:

Type sudo apt-get install gcc after typing the following command instruction will take place

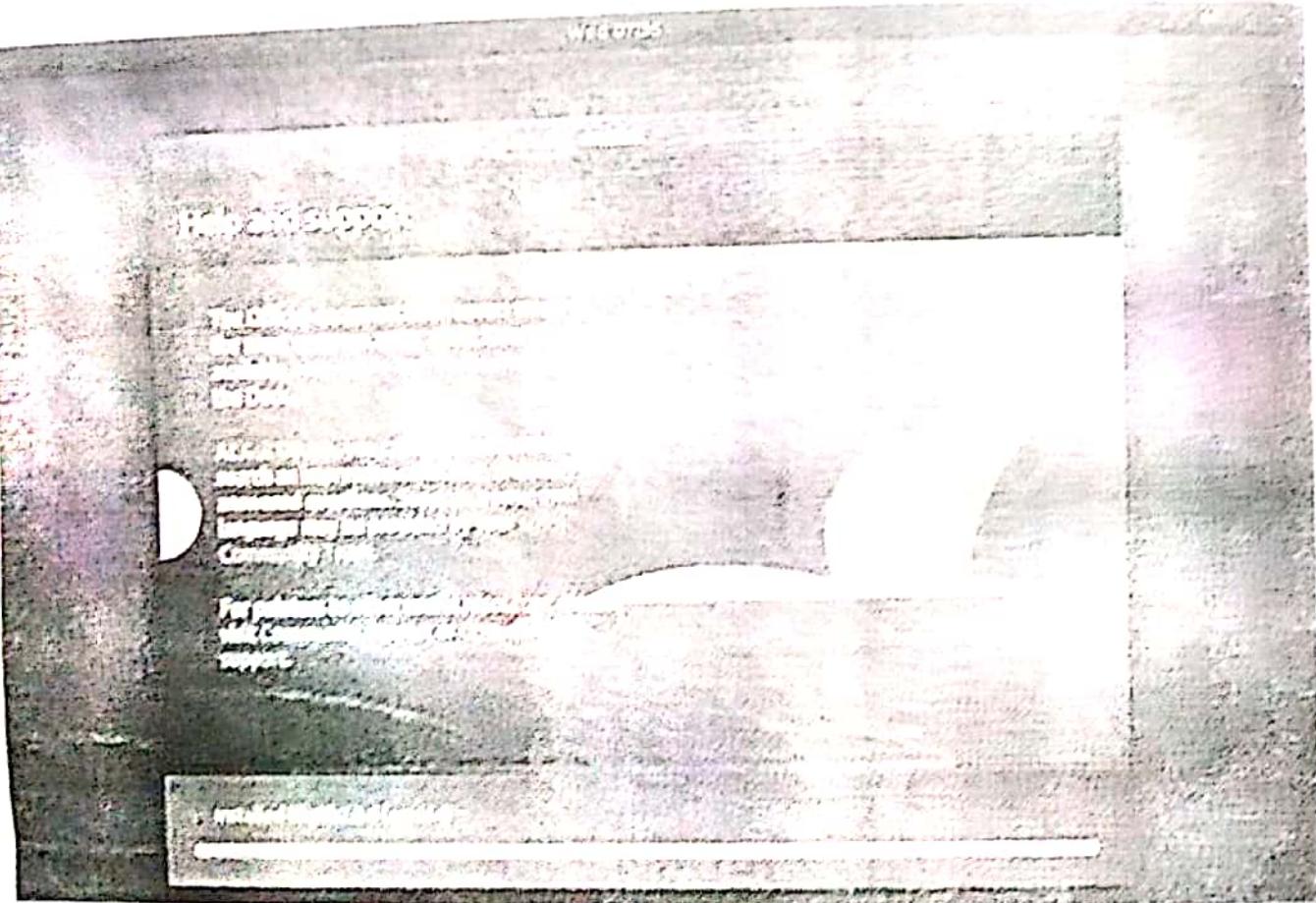
Step 3:

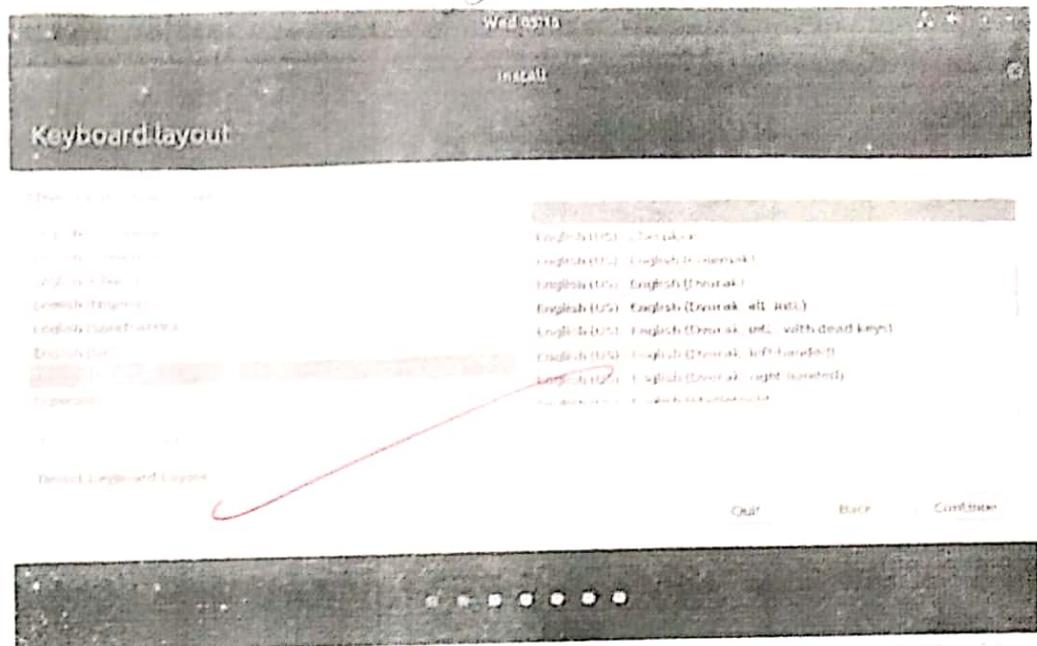
Type sudo apt-get install build-essential this will install all the libraries required for C and C++ programming language

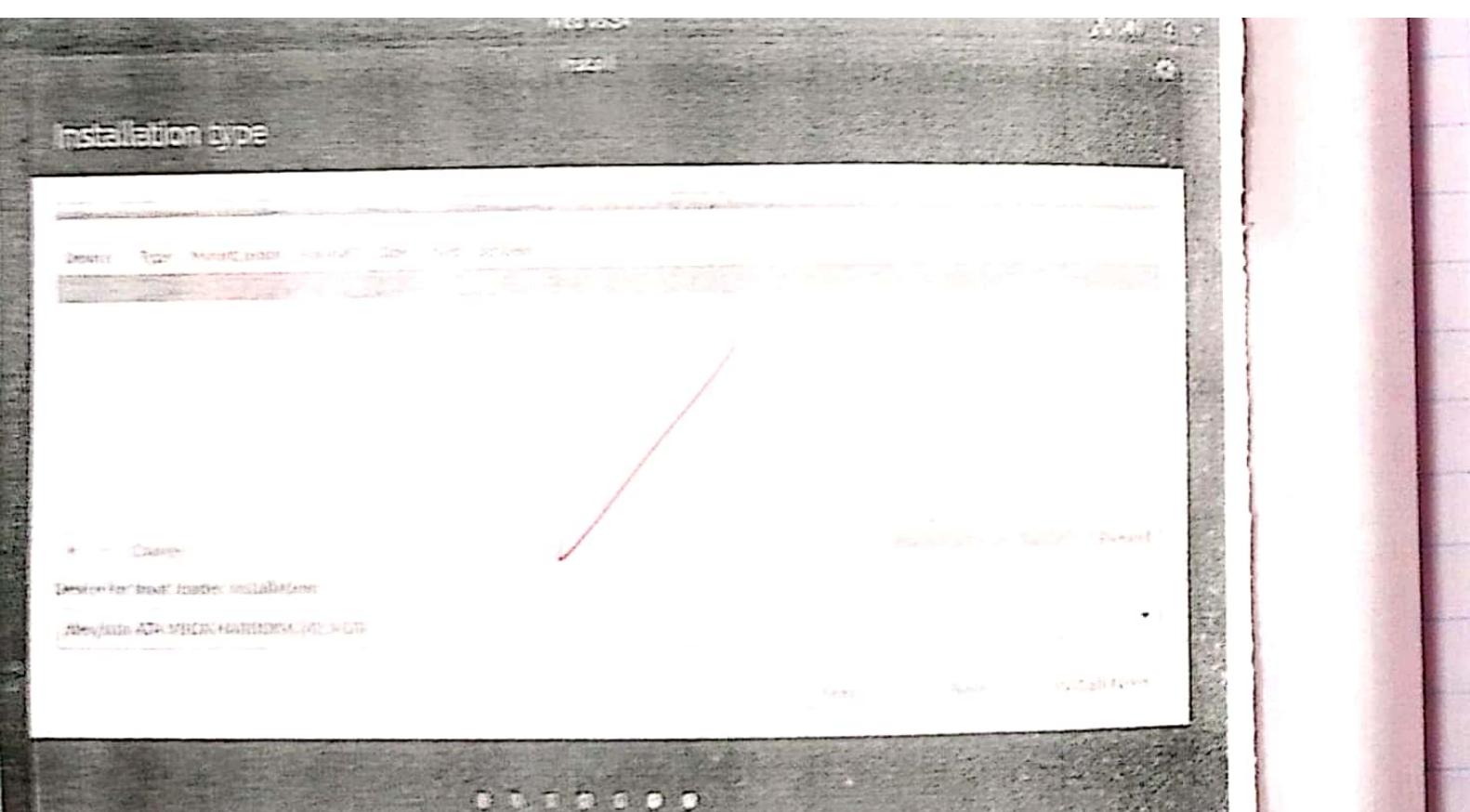
How to un/install gcc compiler

In ~~Ubuntu~~ although there is no manual command

Ubuntu 18.04







• you should also stay connected to internet so you can get the last updates while you install ubuntu

• if you are not connected to internet it will ask you for wireless network, if available we advise you to connect during the installation

### 2) Allocate drive space

• use the check space to choose whether you had to like install ubuntu alongside another operating system delete your existing os and replace it with ubuntu. or if you are an advanced user choose the something else option.

#### Begin the installation

• depending on your previous selection you can verify that you can choose the way in which you would like to install ubuntu

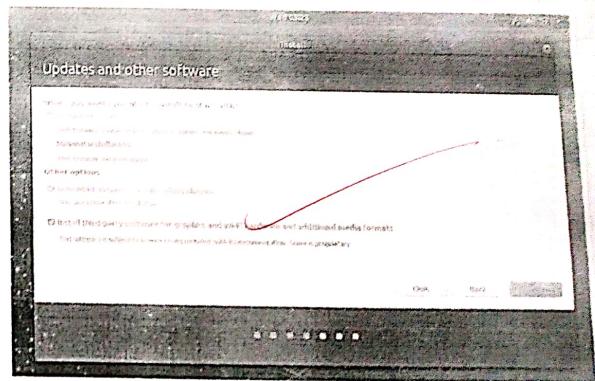
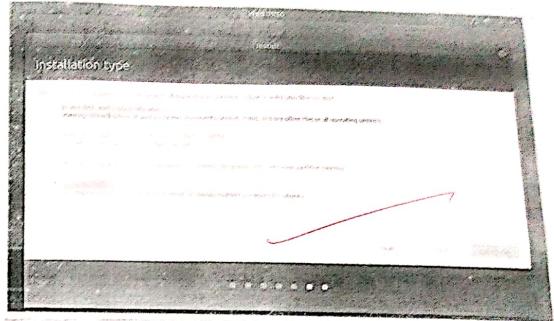
The installation process will begin when you click the installation now button. ~~ub~~ ubuntu needs about 4.5 GB to install add. new features to allow your files

• select your location

• If you are connected to the internet this should be done automatically



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## Practical no-1

Aim Install your choice of linux distribution eg Ubuntu, Fedora.

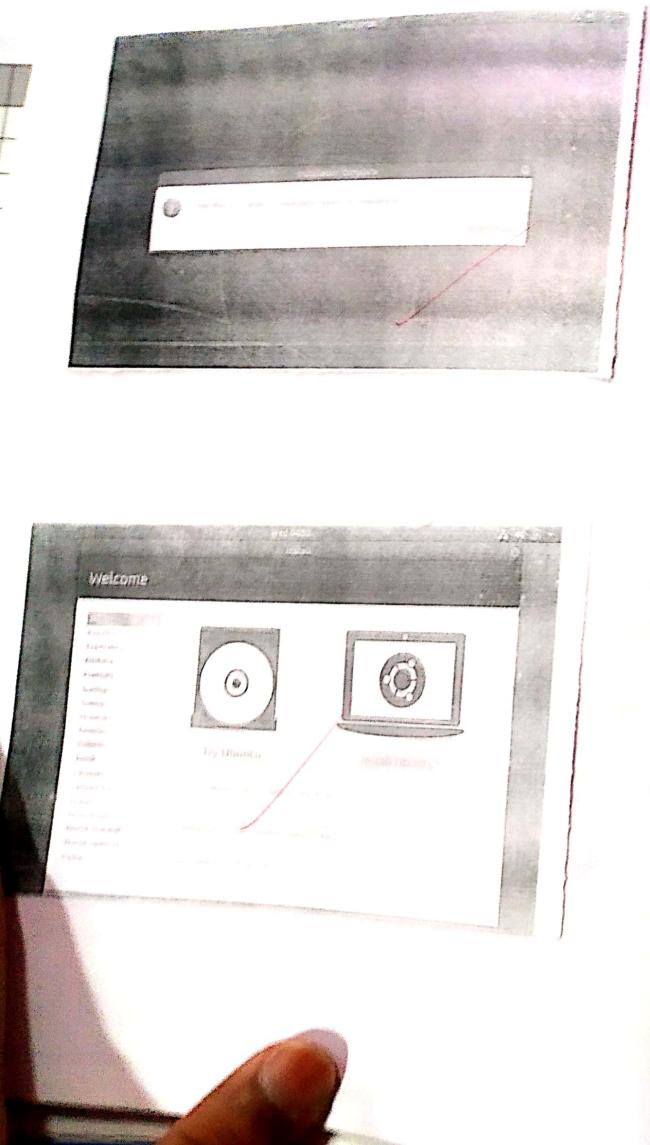
- 1) Customize desktop environment by changing different default option like default background, themes screen savers
- 2) Screen Resolution
- 3) Time setting

## a) using a USB drive

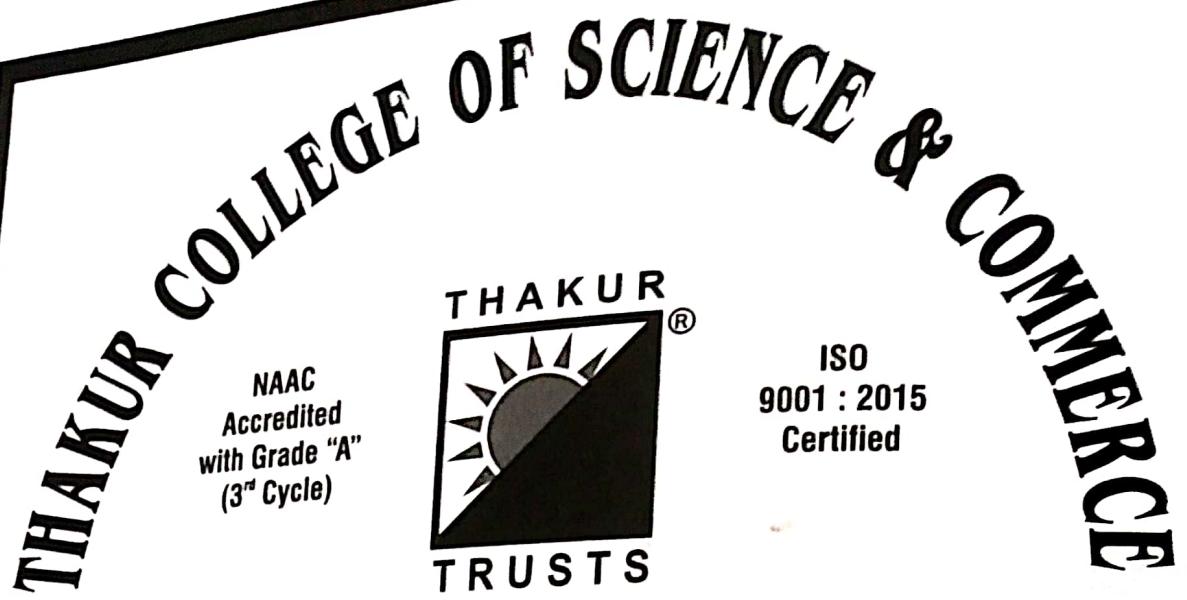
→ Most newer computers can boot from USB you should see welcome screen prompting you to choose your language and giving you the option to install Ubuntu or try it from USB if your computer does it automatically do so if your computer doesn't automatically do so you might need to press F2 key to language boot menu, but be careful not hold it down that can cause an error message

## 1. prepare to install

- we recommend you plug your computer into a power source
- you should also make sure you have enough space on your computer to install Ubuntu
- we advise you to select download updates while installing and install third party software



**★ ★ INDEX ★ ★**



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(3<sup>rd</sup> Cycle)



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