#### **EXPERIMENT NO: 7**

# AIM:-INSTALLATION OF SOFTWARE FROM THE SOURCE CODE

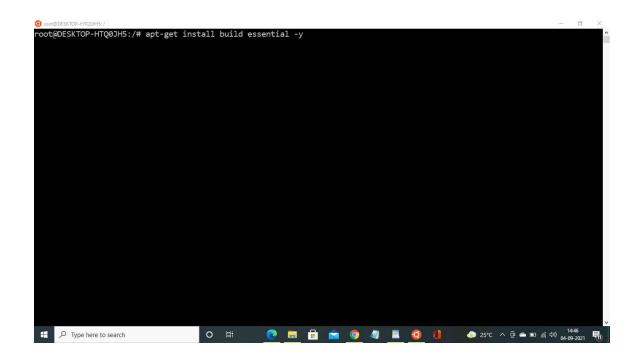
#### Step 1: Get The Server Ready

### apt-get update -y

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make sure a compiler available

apt-get install build-essential -y



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Setting up libis122:amd64 (0.22.1-1) ...

Setting up libis122:amd64 (2.34-6ubuntu1.1) ...

Setting up libio-dev-bin (2.31-0ubuntu9.2) ...

Setting up libio-dev-bin (2.31-0ubuntu9.2) ...

Setting up libio-dev-bin (2.31-0ubuntu1-20.04) ...

Setting up libio-dev-bin (2.31-0ubuntu1-20.04) ...

Setting up libio-dev-bin (2.31-0ubuntu1-20.04) ...

Setting up libio-dev-bin (2.30-1ubuntu1-20.04) ...

Setting up binutils-(2.30-2ubuntu9.2) ...

Setting up binutils-(2.34-6ubuntu1.1) ...

Setting up binutils (2.34-6ubuntu1.1) ...

Setting up binutils (2.34-6ubuntu1.1) ...

Setting up binutils (2.34-6ubuntu1.1) ...

Setting up binutils (2.34-6ubuntu2) ...

Setting up binutils (2.34-6ubuntu2) ...

Setting up gcc (4:9.3.0-1ubuntu2) ...

Setting up gcc (4:9.3.0-1ubuntu1-20.04) ...

Setting up gcc (4:9.3.0-1ubuntu2) ...

Setting up gcc (4:9.3.0-1ubuntu2) ...

Setting up gcc (4:9.3.0-1ubuntu2) ...

Setting up set-(4:9.3.0-1ubuntu2) ...

Setting up set-(4:9.3.
```

Step 2: Download Dependencies

apt install build-essential dh-autoreconf libcurl4-gnutls-dev libexpat1-dev gettext libz-dev libssl-dev -y

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oot@DESKTOP-HTQ0JH5:/# apt install build-essential dh-autoreconf libcurl4-gnutls-dev libexpat1-dev gettext libz-dev libss
1-dev -y
Reading package lists... Done
Building dependency tree
Reading sependency relation... Done
Reading state information... Done
Note, selecting 'zlibig-dev' instead of 'libz-dev'
Duild-essential is already the newest version (12.8ubuntu1.1).
he following additional packages will be installed:
 autoconf automake autopoint autotools-dev debhelper dh-strip-nondeterminism dwz intltool-debian libarchive-cpio-perl libarchive-zip-perl libcroco3 libdebhelper-perl libfile-stripnondeterminism-perl libltdl-dev libmail-sendmail-perl
 libsub-override-perl libsys-hostname-long-perl libtool m4 po-debconf
 uggested packages:
 autoconf-archive gnu-standards autoconf-doc dh-make gettext-doc libasprintf-dev libgettextpo-dev libcurl4-doc
 libgnutls28-dev libidn11-dev libkrb5-dev libldap2-dev librtmp-dev libssh2-1-dev pkg-config libtool-doc libssl-doc gfortran | fortran95-compiler gcj-jdk m4-doc libmail-box-perl ne following NEW packages will be installed:
 autoconf automake autopoint autotools-dev debhelper dh-autoreconf dh-strip-nondeterminism dwz gettext intltool-debian libarchive-cpio-perl libarchive-zip-perl libcroco3 libcurl4-gnutls-dev libdebhelper-perl libexpat1-dev libfile-stripnondeterminism-perl libltdl-dev libmail-sendmail-perl libssl-dev libsub-override-perl libsys-hostname-long-perl libtool m4 po-debconf zlib1g-dev
upgraded, 26 newly installed, 0 to remove and 0 not upgraded.
leed to get 6497 kB of archives.
After this operation, 25.4 MB of additional disk space will be used.
Arter this operation, 25.4 MB of additional disk space will be used.

Get:1 http://archive.ubuntu.com/ubuntu focal/main amd64 autoconf all 2.69-11.1 [321 kB]

Get:2 http://archive.ubuntu.com/ubuntu focal/main amd64 autoconf all 2.69-11.1 [321 kB]

Get:3 http://archive.ubuntu.com/ubuntu focal/main amd64 autotools-dev all 20180224.1 [39.6 kB]

Get:4 http://archive.ubuntu.com/ubuntu focal/main amd64 automake all 1:1.16.1-4ubuntu6 [522 kB]
et:5 http://archive.ubuntu.com/ubuntu focal/main amd64 autopoint all 0.19.8.1-10build1 [412 kB]
et:6 http://archive.ubuntu.com/ubuntu focal/main amd64 libtool all 2.4.6-14 [161 kB]
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update-alternatives: using /usr/bin/automake-1.16 to provide /usr/bin/automake (automake) in auto mode
O 닭 🙋 🛅 📅 😭 🌖 🐠 🗵 🔕 🕕 🛖 25°C ^ 옆 🖴 🗷 🖟 네) (4-19-2021 특히)
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Step 3: Download The Source Package

wget <a href="https://github.com/git/git/archive/v2.23.0.tar.gz">https://github.com/git/git/archive/v2.23.0.tar.gz</a>

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#### extract the archive using

## tar -xvzf v2.23.0.tar.gz

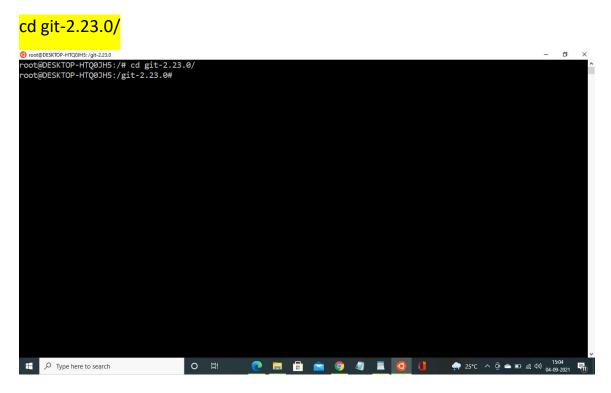
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root@DESKTOP-HTQ0JH5:/# tar -xvzf v2.23.0.tar.gz
 git-2.23.0/
git-2.23.0/.clang-format
git-2.23.0/.editorconfig
git-2.23.0/.editorconfig
git-2.23.0/.gitattributes
git-2.23.0/.github/
git-2.23.0/.github/CONTRIBUTING.md
git-2.23.0/.github/PULL_REQUEST_TEMPLATE.md
  git-2.23.0/.gitignore
git-2.23.0/.gitrghole
git-2.23.0/.mailmap
git-2.23.0/.travis.yml
git-2.23.0/.tsan-suppressions
git-2.23.0/COPYING
 git-2.23.0/Documentation/
git-2.23.0/Documentation/.gitattributes
 git-2.23.0/Documentation/.gitignore
git-2.23.0/Documentation/CodingGuidelines
git-2.23.0/Documentation/Makefile
git-2.23.0/Documentation/MyFirstContribution.txt
git-2.23.0/Documentation/RelNotes/
 git-2.23.0/Documentation/RelNotes/1.5.0.1.txt
git-2.23.0/Documentation/RelNotes/1.5.0.2.txt
git-2.23.0/Documentation/RelNotes/1.5.0.3.txt
  it-2.23.0/Documentation/RelNotes/1.5.0.4.txt
 git-2.23.0/Documentation/RelNotes/1.5.0.5.txt
 git-2.23.0/Documentation/RelNotes/1.5.0.6.txt
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@ mediptstripe.Httpasts/
git-2.23.0/xdiff/xemit.c
git-2.23.0/xdiff/xemit.h
git-2.23.0/xdiff/xmitogram.c
git-2.23.0/xdiff/xmiclude.h
git-2.23.0/xdiff/xmiclude.h
git-2.23.0/xdiff/xmiclude.h
git-2.23.0/xdiff/xmrege.c
git-2.23.0/xdiff/xprepare.c
git-2.23.0/xdiff/xprepare.h
git-2.23.0/xdiff/xtypes.h
git-2.2
```

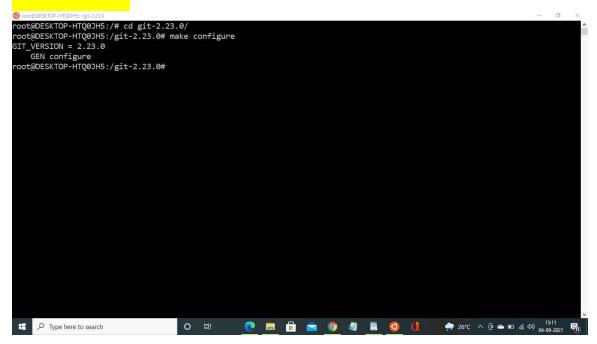
change the current working directory to the folder "git"



Step 4: Install Git

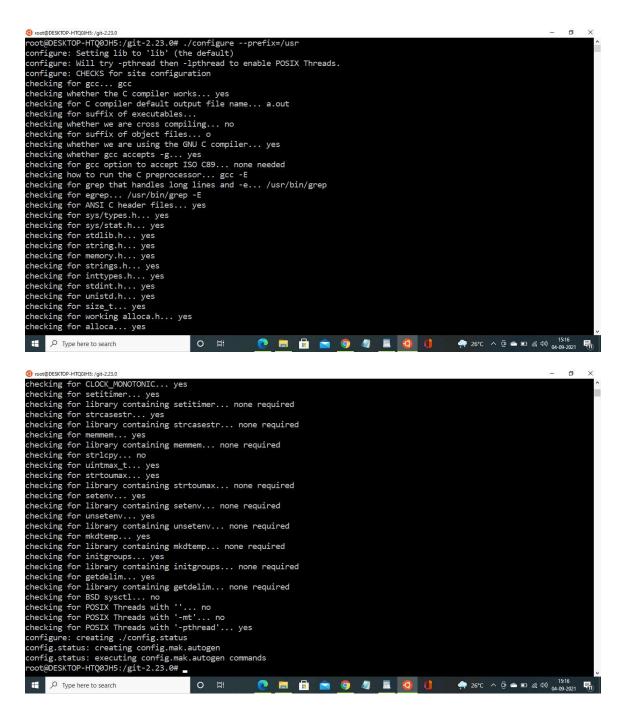
configure the extracted package

# make configure



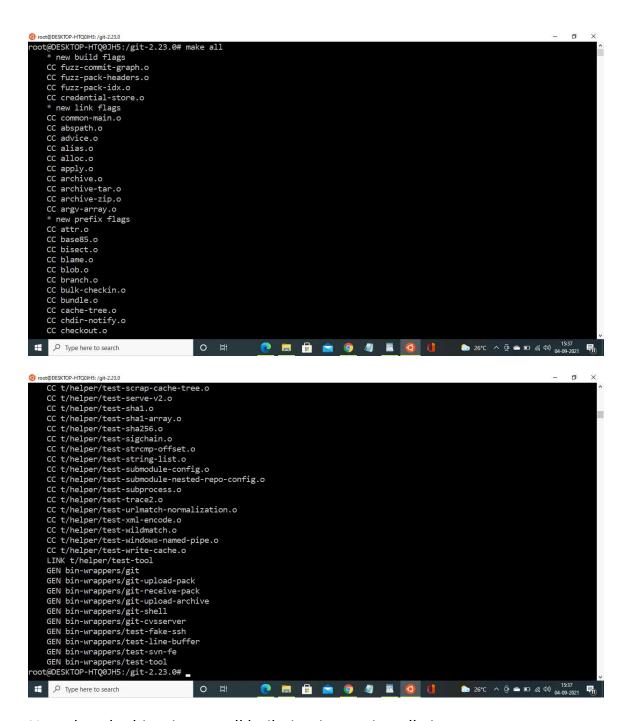
verify that all of the dependencies necessary to build the package are available by running this command:

./configure --prefix=/usr



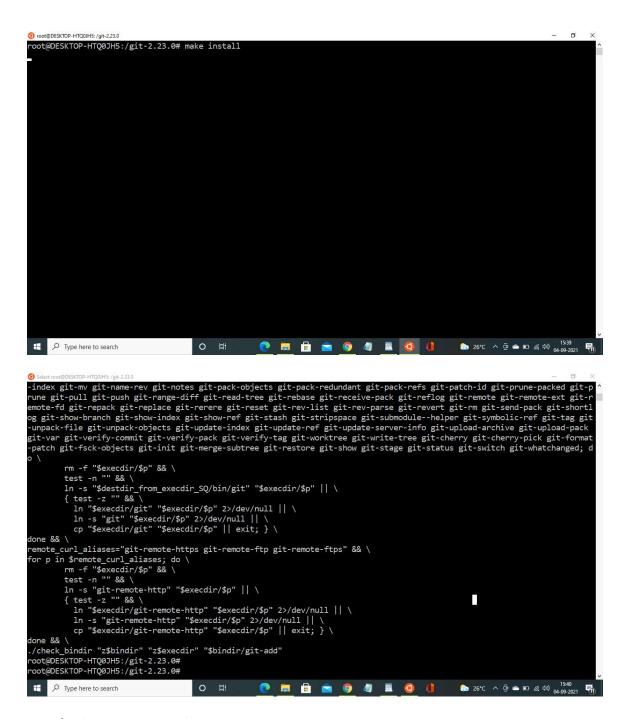
#### Build the source code:

<mark>make all</mark>



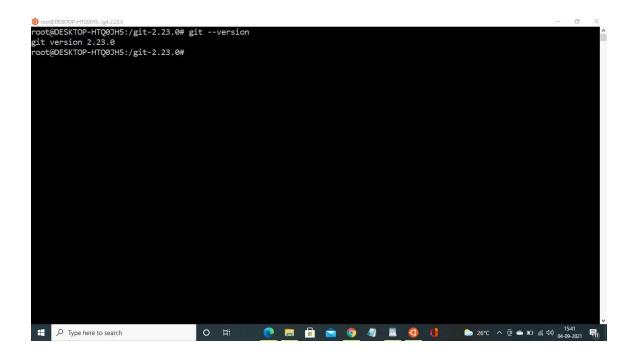
Now that the binaries are all built, its time to install git:

<mark>make install</mark>



#### Verify that git is working

git --version



Successfully installed the git software from its source code!!!