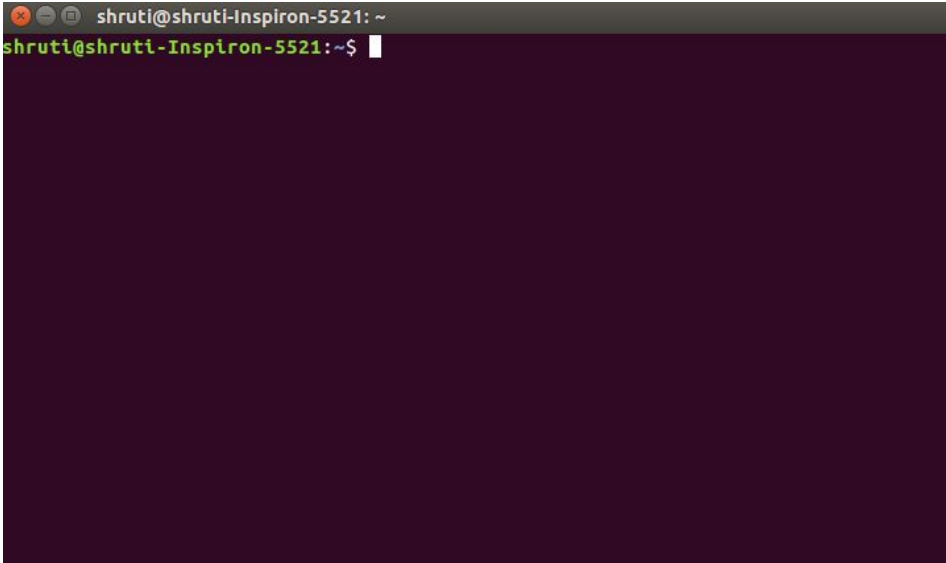


1. Installing NodeJS

Ubuntu

Install Node.js using Ubuntu official repository: Node.js is available in Ubuntu's repository and you can easily install it using a few commands. Follow the steps below to install Node.js on your Ubuntu operating system.

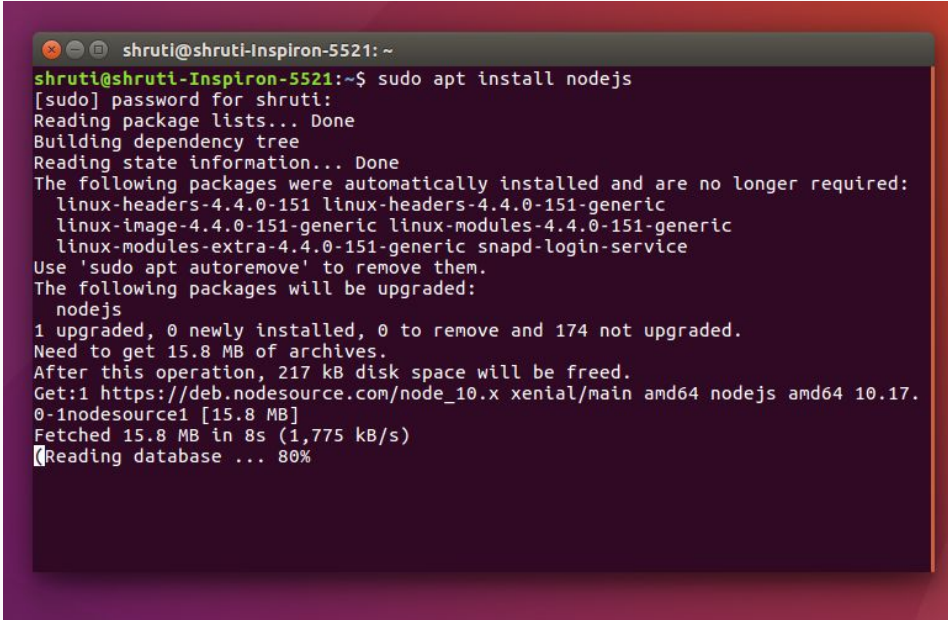
- **Step 1:** Open your terminal or press Ctrl + Alt + T.

A screenshot of a terminal window with a dark purple background. The title bar at the top shows window control icons and the text "shruti@shruti-Inspiron-5521: ~". The terminal content shows a green prompt "shruti@shruti-Inspiron-5521:~\$" followed by a white cursor block.

```
shruti@shruti-Inspiron-5521:~$
```

- **Step 2:** To install node.js use the following command:

`sudo apt install nodejs`

A terminal window with a dark purple background and a red title bar. The title bar contains the text 'shruti@shruti-Inspiron-5521: ~'. The terminal shows the command 'shruti@shruti-Inspiron-5521:~\$ sudo apt install nodejs' and its output. The output includes the password prompt, package list reading, dependency tree building, state information reading, a list of packages to be removed, a list of packages to be upgraded (nodejs), and the progress of the installation, including the amount of disk space freed and the amount of data fetched.

```
shruti@shruti-Inspiron-5521:~$ sudo apt install nodejs
[sudo] password for shruti:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  linux-headers-4.4.0-151 linux-headers-4.4.0-151-generic
  linux-image-4.4.0-151-generic linux-modules-4.4.0-151-generic
  linux-modules-extra-4.4.0-151-generic snapd-login-service
Use 'sudo apt autoremove' to remove them.
The following packages will be upgraded:
  nodejs
1 upgraded, 0 newly installed, 0 to remove and 174 not upgraded.
Need to get 15.8 MB of archives.
After this operation, 217 kB disk space will be freed.
Get:1 https://deb.nodesource.com/node_10.x xenial/main amd64 nodejs amd64 10.17.
0-1nodesource1 [15.8 MB]
Fetched 15.8 MB in 8s (1,775 kB/s)
Reading database ... 80%
```

- **Step 3:** Once installed, verify it by checking the installed version using the following command:

`node -v` or `node --version`

```
shruti@shruti-Inspiron-5521: ~  
shruti@shruti-Inspiron-5521:~$ node -v  
v10.17.0  
shruti@shruti-Inspiron-5521:~$
```

Note: It is recommended to install Node Package Manager(NPM) with Node.js. NPM is an open source library of Node.js packages.

To install NPM, use the following commands:

```
sudo apt install npm
```

```
npm -v or npm --version
```

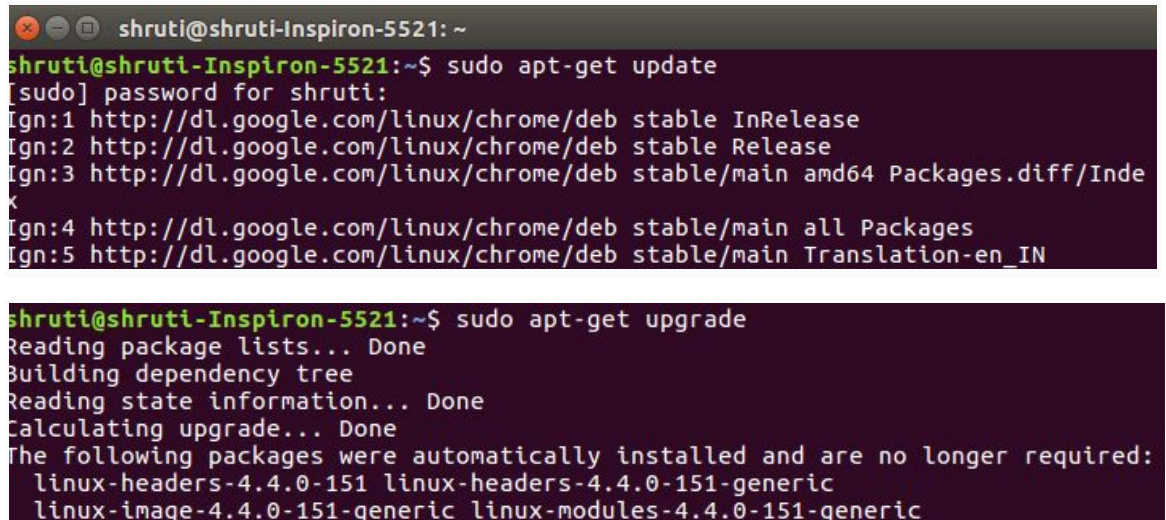
Node and NPM will be successfully installed on your Ubuntu machine.

Install Node.js using NodeSource repository: The latest version of Node.js can be installed from [NodeSource repository](#). Follow the steps below to install the Node.js on your Ubuntu.

- **Step 1:** Open your terminal or press Ctrl + Alt + T and use the following commands to update and upgrade the package manager:

sudo apt-get update

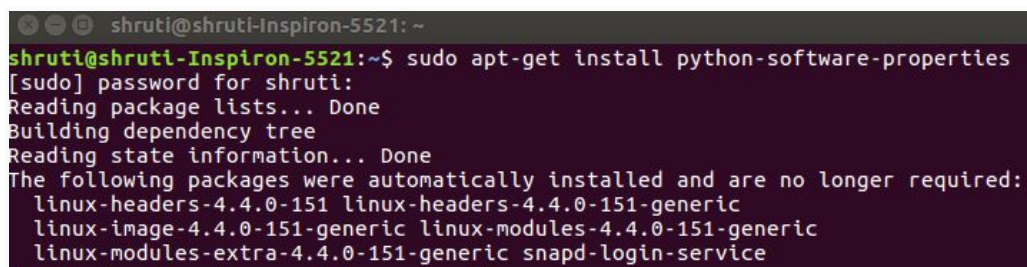
sudo apt-get upgrade



```
shruti@shruti-Inspiron-5521: ~  
shruti@shruti-Inspiron-5521:~$ sudo apt-get update  
[sudo] password for shruti:  
Ign:1 http://dl.google.com/linux/chrome/deb stable InRelease  
Ign:2 http://dl.google.com/linux/chrome/deb stable Release  
Ign:3 http://dl.google.com/linux/chrome/deb stable/main amd64 Packages.diff/Index  
Ign:4 http://dl.google.com/linux/chrome/deb stable/main all Packages  
Ign:5 http://dl.google.com/linux/chrome/deb stable/main Translation-en_IN  
  
shruti@shruti-Inspiron-5521:~$ sudo apt-get upgrade  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
Calculating upgrade... Done  
The following packages were automatically installed and are no longer required:  
  linux-headers-4.4.0-151 linux-headers-4.4.0-151-generic  
  linux-image-4.4.0-151-generic linux-modules-4.4.0-151-generic
```

- **Step 2:** Install Python software libraries using the following command:

sudo apt-get install python-software-properties



```
shruti@shruti-Inspiron-5521: ~  
shruti@shruti-Inspiron-5521:~$ sudo apt-get install python-software-properties  
[sudo] password for shruti:  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following packages were automatically installed and are no longer required:  
  linux-headers-4.4.0-151 linux-headers-4.4.0-151-generic  
  linux-image-4.4.0-151-generic linux-modules-4.4.0-151-generic  
  linux-modules-extra-4.4.0-151-generic snapd-login-service
```

- **Step 3:** Add Node.js PPA to the system.

curl -sL https://deb.nodesource.com/setup_10.x | sudo -E bash -

Note: Here, we are installing node.js version 10, if you want to install version

11, you can replace setup_10.x with setup_11.x.

```
shruti@shruti-Inspiron-5521:~$ curl -sL https://deb.nodesource.com/setup_10.x | su
do -E bash -

## Installing the NodeSource Node.js 10.x repo...

## Populating apt-get cache...

+ apt-get update
Hit:1 http://in.archive.ubuntu.com/ubuntu xenial InRelease
Ign:2 http://dl.google.com/linux/chrome/deb stable InRelease
Ign:3 http://dl.google.com/linux/chrome/deb stable Release
Hit:4 http://in.archive.ubuntu.com/ubuntu xenial-updates InRelease
Ign:5 http://dl.google.com/linux/chrome/deb stable/main amd64 Packages.diff/Index
Ign:6 http://dl.google.com/linux/chrome/deb stable/main all Packages
Ign:7 http://dl.google.com/linux/chrome/deb stable/main Translation-en_IN
Hit:8 http://in.archive.ubuntu.com/ubuntu xenial-backports InRelease
Ign:9 http://dl.google.com/linux/chrome/deb stable/main Translation-en
Ign:10 http://dl.google.com/linux/chrome/deb stable/main amd64 DEP-11 Metadata
Ign:11 http://dl.google.com/linux/chrome/deb stable/main DEP-11 64x64 Icons
Ign:12 http://dl.google.com/linux/chrome/deb stable/main amd64 Packages
Ign:6 http://dl.google.com/linux/chrome/deb stable/main all Packages
```

- **Step 4:** To Install Node.js and NPM to your Ubuntu machine, use the command given below:

sudo apt-get install nodejs

```
shruti@shruti-Inspiron-5521:~$ sudo apt-get install -y nodejs
Reading package lists... Done
Building dependency tree
Reading state information... Done
```

- **Step 5:** Once installed, verify it by checking the installed version using the following command:

node -v or ***node --version***

- ***npm -v*** or ***npm --version***

```
shruti@shruti-Inspiron-5521:~$ node --version
v10.17.0
shruti@shruti-Inspiron-5521:~$ npm --version
6.11.3
shruti@shruti-Inspiron-5521:~$
```

Finally, you have successfully installed Node.js and NPM on your Ubuntu machine.

2. Windows:

<https://nodejs.org/en/download/>

Postman Installation

1. Linux:

<https://snapcraft.io/postman>

sudo snap install postman

You will need to install snap first, and you will be able to install most of the softwares quickly on linux.

Don't worry you will be prompted if it's not installed,

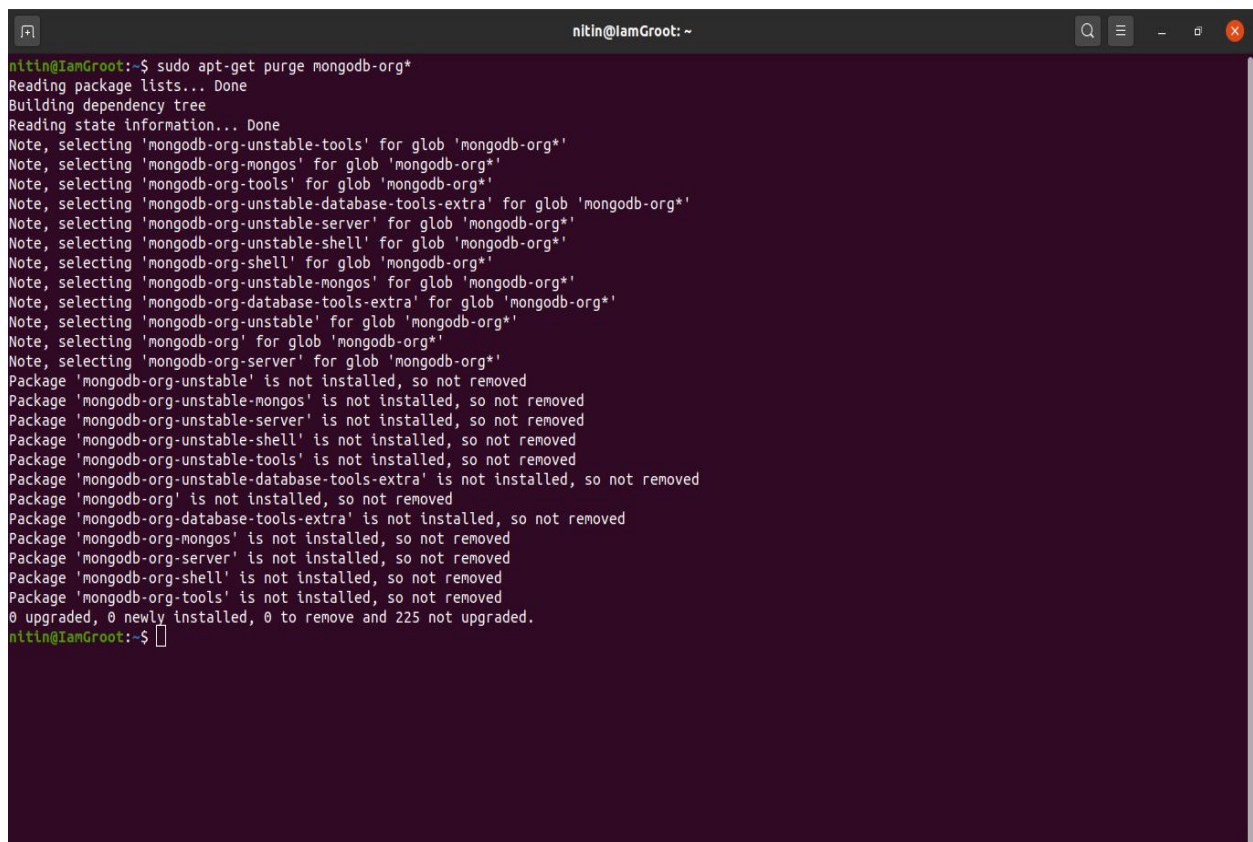
2. Windows:

<https://www.postman.com/downloads/>

Installing MongoDB:

1. You need to first uninstall the mongodb, you can use:

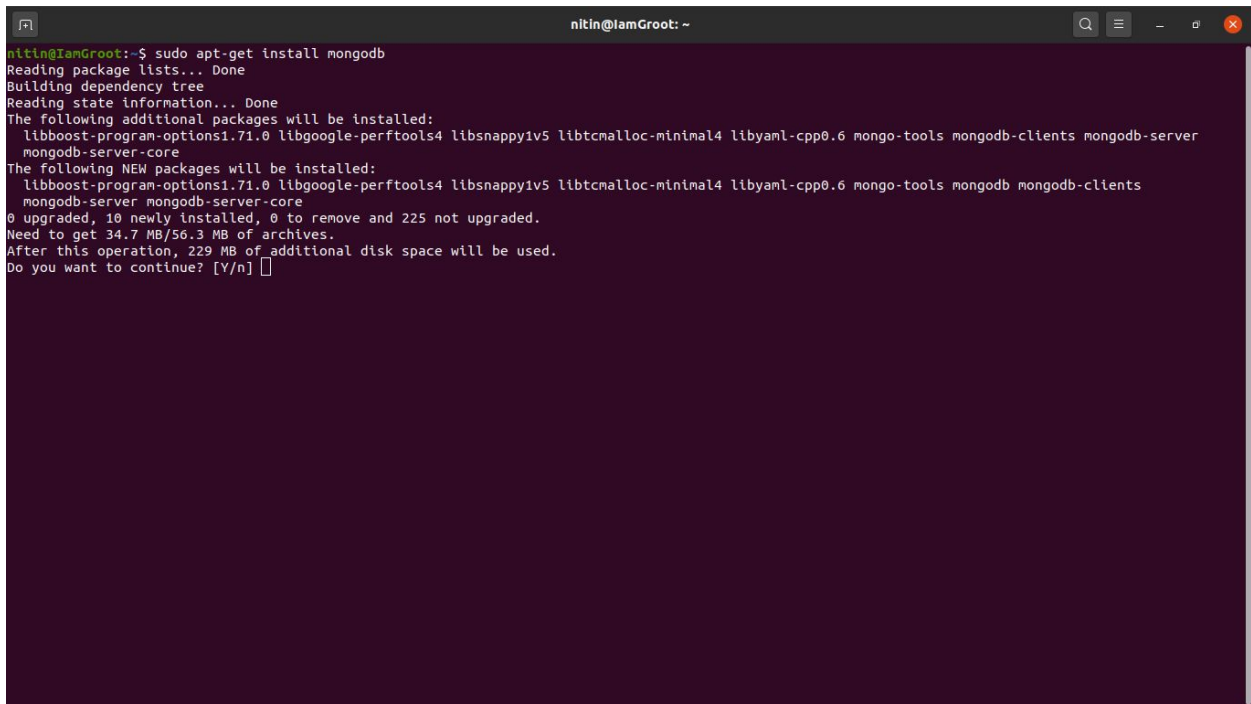
sudo apt-get purge mongodb-org*



```
nitin@IamGroot: ~  
nitin@IamGroot:~$ sudo apt-get purge mongodb-org*  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
Note, selecting 'mongodb-org-unstable-tools' for glob 'mongodb-org*'  
Note, selecting 'mongodb-org-mongos' for glob 'mongodb-org*'  
Note, selecting 'mongodb-org-tools' for glob 'mongodb-org*'  
Note, selecting 'mongodb-org-unstable-database-tools-extra' for glob 'mongodb-org*'  
Note, selecting 'mongodb-org-unstable-server' for glob 'mongodb-org*'  
Note, selecting 'mongodb-org-unstable-shell' for glob 'mongodb-org*'  
Note, selecting 'mongodb-org-shell' for glob 'mongodb-org*'  
Note, selecting 'mongodb-org-unstable-mongos' for glob 'mongodb-org*'  
Note, selecting 'mongodb-org-database-tools-extra' for glob 'mongodb-org*'  
Note, selecting 'mongodb-org-unstable' for glob 'mongodb-org*'  
Note, selecting 'mongodb-org' for glob 'mongodb-org*'  
Note, selecting 'mongodb-org-server' for glob 'mongodb-org*'  
Package 'mongodb-org-unstable' is not installed, so not removed  
Package 'mongodb-org-unstable-mongos' is not installed, so not removed  
Package 'mongodb-org-unstable-server' is not installed, so not removed  
Package 'mongodb-org-unstable-shell' is not installed, so not removed  
Package 'mongodb-org-unstable-tools' is not installed, so not removed  
Package 'mongodb-org-unstable-database-tools-extra' is not installed, so not removed  
Package 'mongodb-org' is not installed, so not removed  
Package 'mongodb-org-database-tools-extra' is not installed, so not removed  
Package 'mongodb-org-mongos' is not installed, so not removed  
Package 'mongodb-org-server' is not installed, so not removed  
Package 'mongodb-org-shell' is not installed, so not removed  
Package 'mongodb-org-tools' is not installed, so not removed  
0 upgraded, 0 newly installed, 0 to remove and 225 not upgraded.  
nitin@IamGroot:~$
```


After this, install mongodb through the following commands:

```
sudo apt-get install mongodb
```

A terminal window titled 'nitin@IamGroot: ~' showing the execution of 'sudo apt-get install mongodb'. The output displays the package lists, dependency tree, and state information. It lists additional packages to be installed: libboost-program-opts1.71.0, libgoogle-perftools4, libsnappy1v5, libtcmalloc-minimal4, libyaml-cpp0.6, mongo-tools, mongod, mongod-client, mongod-server, and mongod-server-core. It also shows the number of packages to be upgraded, installed, or removed, and the disk space requirements. The prompt 'Do you want to continue? [Y/n]' is visible at the end of the output.

```
nitin@IamGroot:~$ sudo apt-get install mongodb
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libboost-program-opts1.71.0 libgoogle-perftools4 libsnappy1v5 libtcmalloc-minimal4 libyaml-cpp0.6 mongo-tools mongod mongod-client
  mongod-server mongod-server-core
The following NEW packages will be installed:
  libboost-program-opts1.71.0 libgoogle-perftools4 libsnappy1v5 libtcmalloc-minimal4 libyaml-cpp0.6 mongo-tools mongod mongod-client
  mongod-server mongod-server-core
0 upgraded, 10 newly installed, 0 to remove and 225 not upgraded.
Need to get 34.7 MB/56.3 MB of archives.
After this operation, 229 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

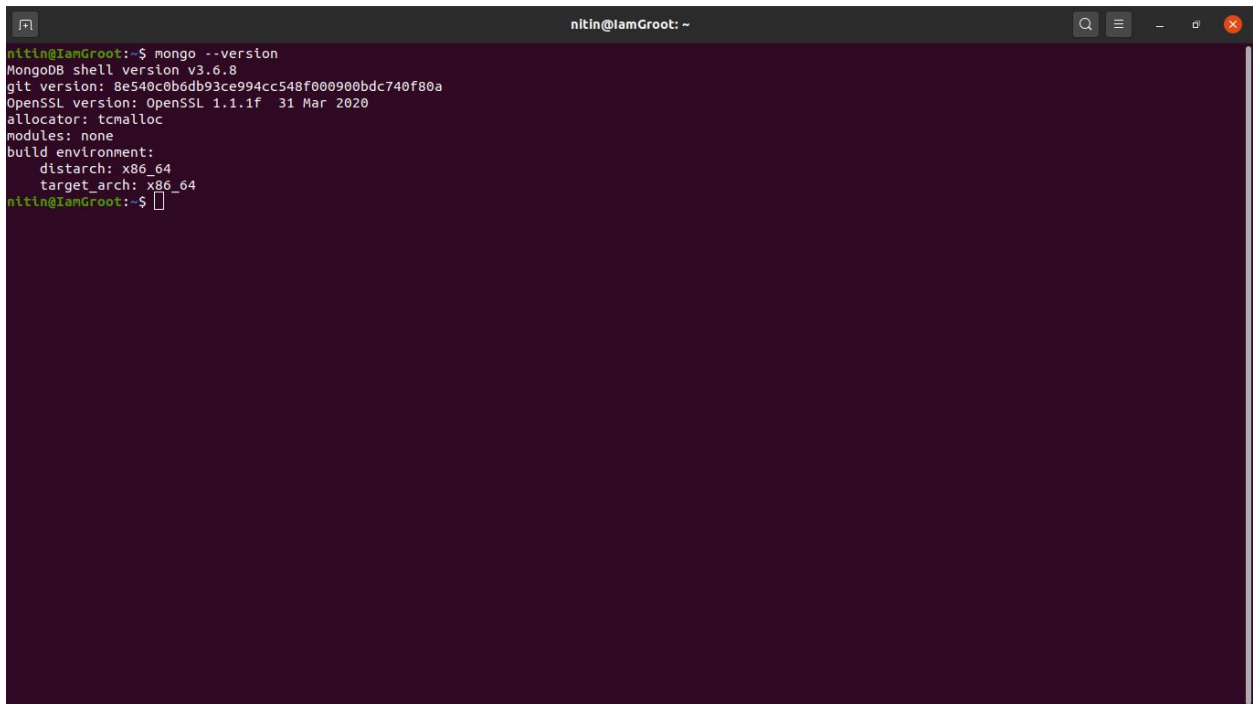
Continue by 'Y'

And then update:

```
sudo apt-get update
```

You are done with the installation of mongodb. You can check it by using the below command:

mongo --version

A terminal window titled 'nitin@JamGroot: ~' with a dark purple background. The terminal shows the command 'mongo --version' being executed. The output is as follows:

```
nitin@JamGroot:~$ mongo --version
MongoDB shell version v3.6.8
git version: 8e540c0b6db93ce994cc548f00900bdc740f80a
OpenSSL version: OpenSSL 1.1.1f 31 Mar 2020
allocator: tcmalloc
modules: none
build environment:
  distarch: x86_64
  target_arch: x86_64
nitin@JamGroot:~$
```

Finally type

`sudo service mongod start`


```
nltn@iamGroot: ~  
nltn@iamGroot:~$  
nltn@iamGroot:~$ sudo service mongod start  
Failed to start mongod.service: Unit mongod.service not found.  
nltn@iamGroot:~$  
nltn@iamGroot:~$ sudo service mongod stop  
nltn@iamGroot:~$ sudo service mongod start  
nltn@iamGroot:~$ mongo  
MongoDB shell version v3.6.8  
connecting to: mongod://127.0.0.1:27017  
Implicit session: session { "id" : UUID("bc306d91-15b7-4ffe-95e9-bf3722867abb") }  
MongoDB server version: 3.6.8  
Server has startup warnings:  
2020-08-30T07:38:54.453+0530 I STORAGE [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine  
2020-08-30T07:38:54.453+0530 I STORAGE [initandlisten] **  
2020-08-30T07:38:54.453+0530 I STORAGE [initandlisten] ** See http://dochub.mongodb.org/core/prodnotes-filesystem  
2020-08-30T07:38:55.979+0530 I CONTROL [initandlisten] **  
2020-08-30T07:38:55.980+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.  
2020-08-30T07:38:55.980+0530 I CONTROL [initandlisten] ** Read and write access to data and configuration is unrestricted.  
2020-08-30T07:38:55.980+0530 I CONTROL [initandlisten] **  
> db.c.find()^C  
bye  
nltn@iamGroot:~$ sudo service mongod stop  
nltn@iamGroot:~$ sudo service mongod start  
nltn@iamGroot:~$ mongo  
MongoDB shell version v3.6.8  
connecting to: mongod://127.0.0.1:27017  
Implicit session: session { "id" : UUID("8b1ae546-3a6f-4dce-a251-44721fba3e83") }  
MongoDB server version: 3.6.8  
Server has startup warnings:  
2020-08-30T07:39:14.166+0530 I STORAGE [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine  
2020-08-30T07:39:14.166+0530 I STORAGE [initandlisten] **  
2020-08-30T07:39:14.166+0530 I STORAGE [initandlisten] ** See http://dochub.mongodb.org/core/prodnotes-filesystem  
2020-08-30T07:39:15.428+0530 I CONTROL [initandlisten] **  
2020-08-30T07:39:15.428+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.  
2020-08-30T07:39:15.428+0530 I CONTROL [initandlisten] ** Read and write access to data and configuration is unrestricted.  
2020-08-30T07:39:15.428+0530 I CONTROL [initandlisten] **  
> ]
```

Windows:

<https://docs.mongodb.com/manual/tutorial/install-mongodb-enterprise-on-windows/>

Visual Studio Code:

```
sudo snap install code --classic
```