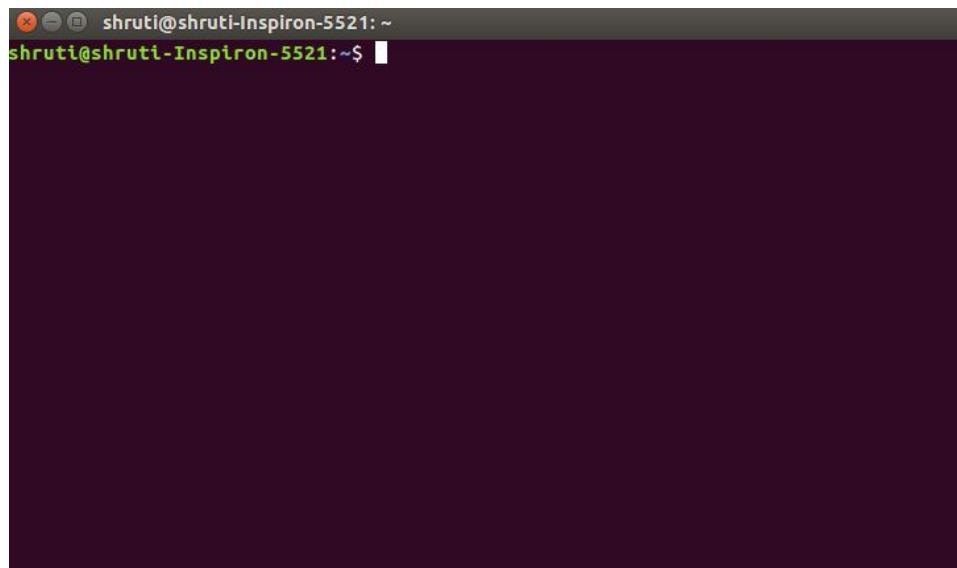


1. Installing NodeJS

Ubuntu

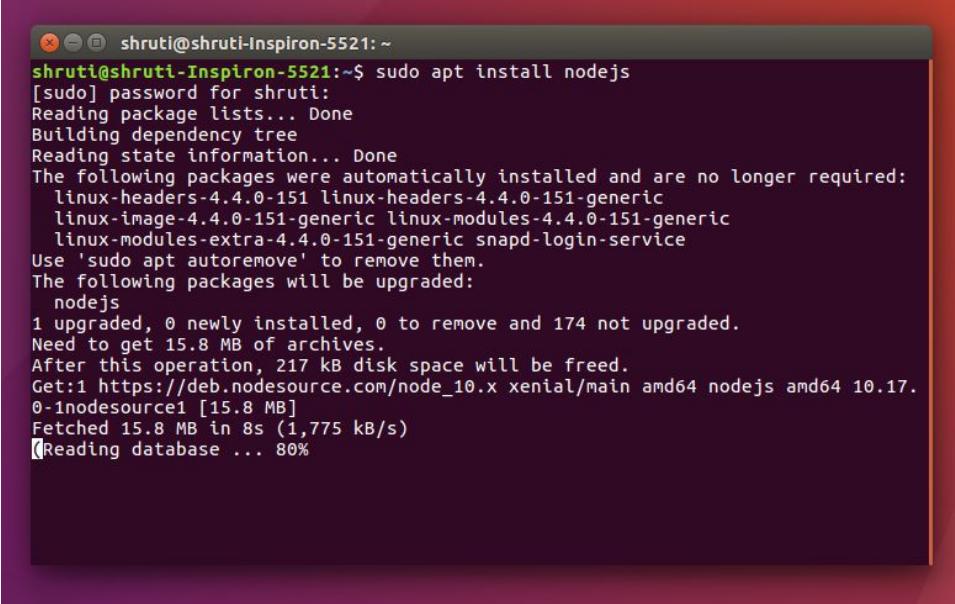
Install Node.js using Ubuntu official repository: Node.js is available in Ubuntu's repository and you can easily install it using a few commands. Follow the steps below to install Node.js on your Ubuntu operating system.

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



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

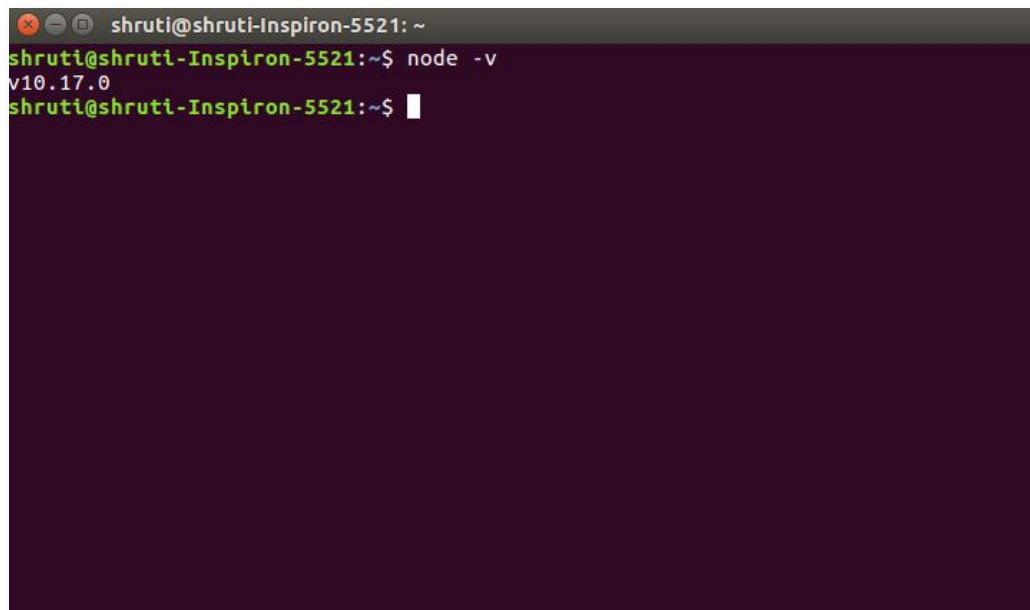
sudo apt install nodejs



```
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



A screenshot of a terminal window titled "shruti@shruti-Inspiron-5521: ~". The window shows the command "node -v" being run, followed by the output "v10.17.0". The terminal has a dark background with white text.

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 | sudo -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/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,

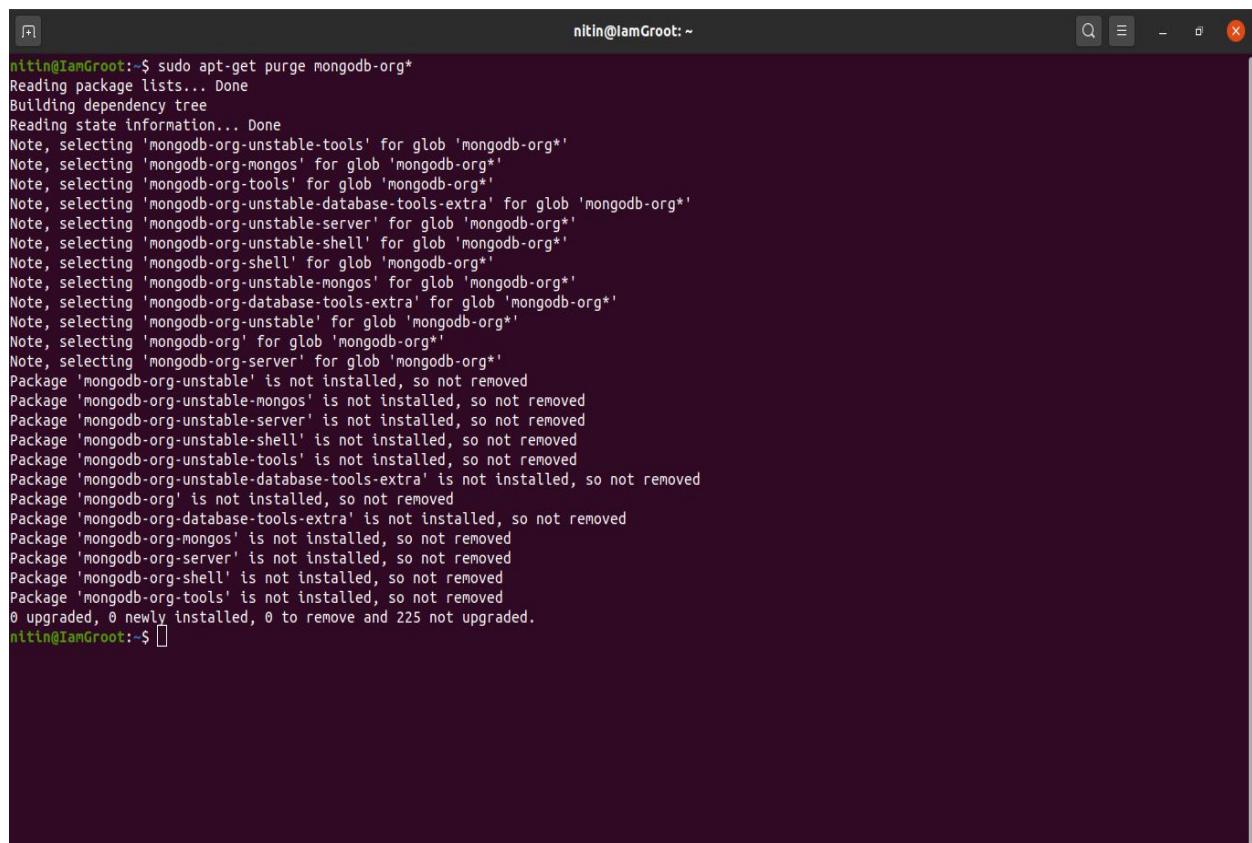
2. Windows:

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

Installing MongoDB:

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

`sudo apt-get purge mongodb-org*`

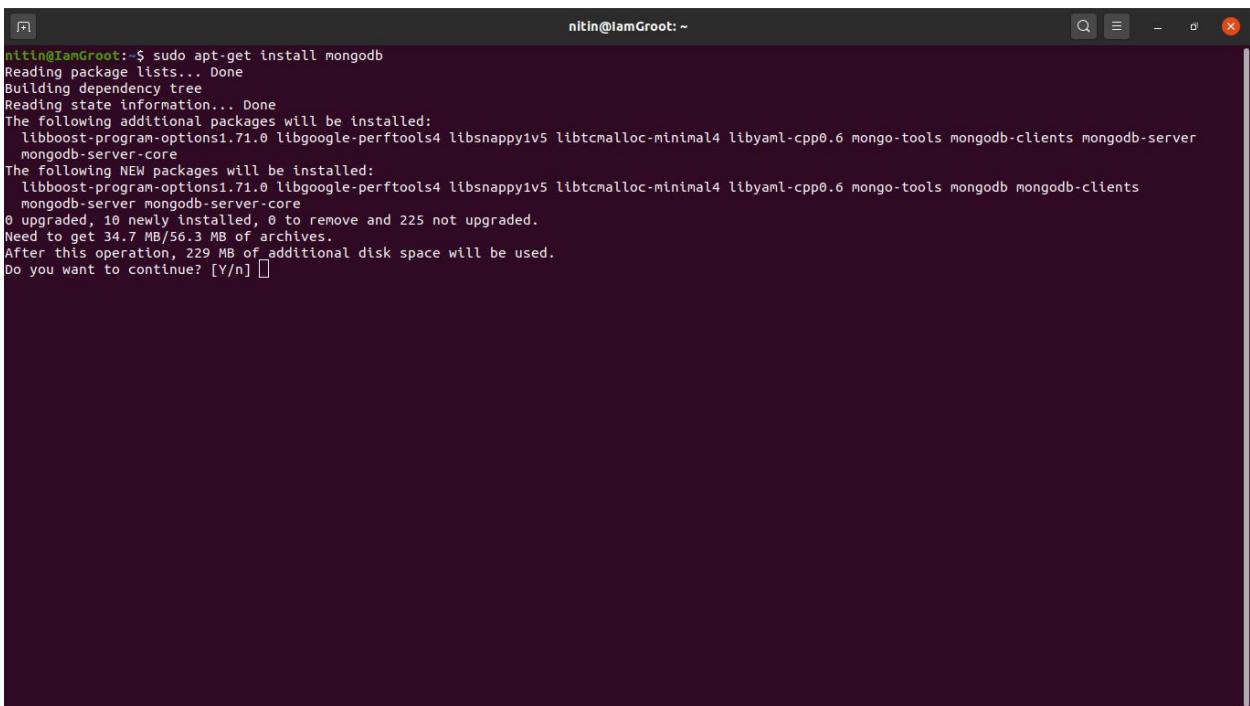


```
nitin@IamGroot: ~
```

```
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
```



The screenshot shows a terminal window titled "nitin@IamGroot: ~". The command "sudo apt-get install mongodb" is being run. The output shows the package manager reading lists, building a dependency tree, and determining packages to install. It lists several additional packages to be installed, including libboost-program-options1.71.0, libgoogle-perf-tools4, libsnappy1v5, libtcmalloc-minimal4, libyaml-cpp0.6, mongo-tools, mongodb-clients, and mongodb-server. It also lists packages to be upgraded and newly installed. The total disk space required is 34.7 MB. A prompt asks if the user wants to continue with "Y/n".

```
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-options1.71.0 libgoogle-perf-tools4 libsnappy1v5 libtcmalloc-minimal4 libyaml-cpp0.6 mongo-tools mongodb-clients mongodb-server
    mongodb-server-core
The following NEW packages will be installed:
  libboost-program-options1.71.0 libgoogle-perf-tools4 libsnappy1v5 libtcmalloc-minimal4 libyaml-cpp0.6 mongo-tools mongodb mongodb-clients
  mongodb-server mongodb-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] 
```

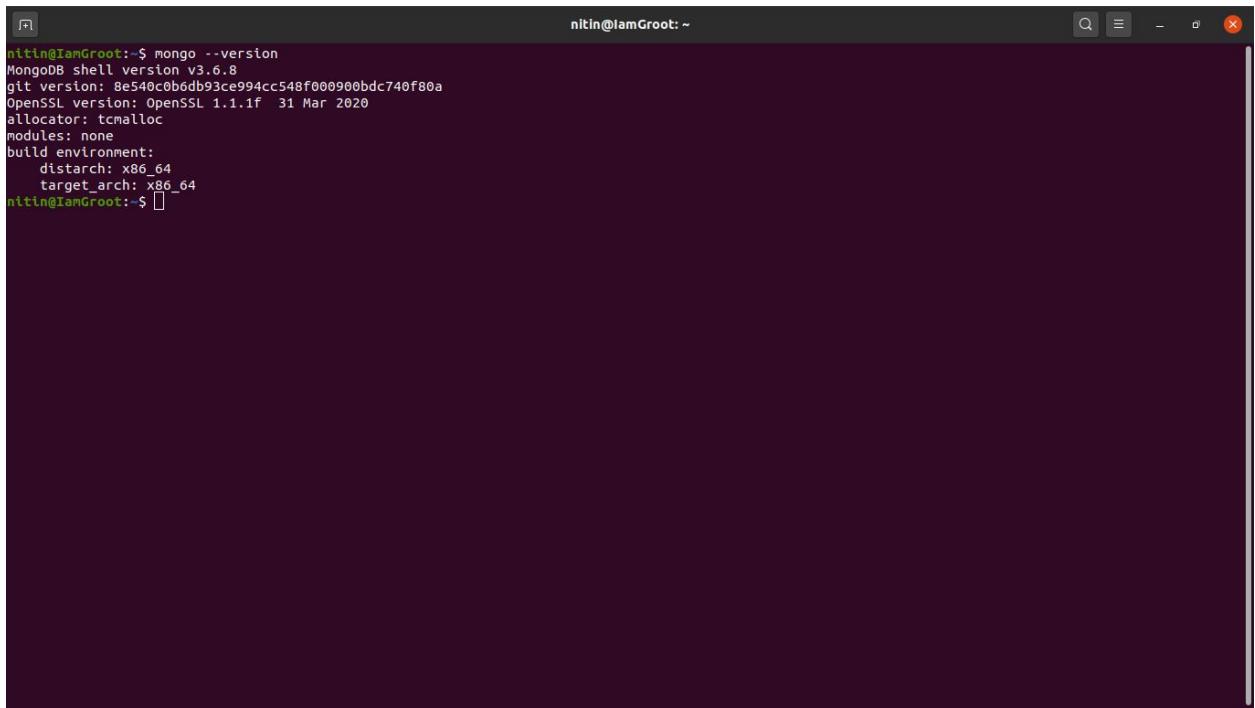
Continue by 'Y'

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 screenshot of a terminal window titled "nitin@IamGroot: ~". The window shows the command "mongo --version" being run and its output. The output includes MongoDB shell version v3.6.8, git version, OpenSSL version, allocator, modules, build environment, distarch, and target_arch. The terminal has a dark background and light-colored text.

```
nitin@IamGroot: ~$ mongo --version
MongoDB shell version v3.6.8
git version: 8e540c0b6db93ce994cc548f000900bdc740f80a
OpenSSL version: OpenSSL 1.1.1f  31 Mar 2020
allocator: tcmalloc
modules: none
build environment:
    distarch: x86_64
    target_arch: x86_64
nitin@IamGroot: ~$
```

Finally type

sudo service mongodb start

```
nitin@IamGroot:~$ 
nitin@IamGroot:~$ sudo service mongod start
Failed to start mongod.service: Unit mongod.service not found.
nitin@IamGroot:~$ 
nitin@IamGroot:~$ sudo service mongodb start
nitin@IamGroot:~$ sudo service mongodb stop
nitin@IamGroot:~$ sudo service mongodb start
nitin@IamGroot:~$ mongo
MongoDB shell version v3.6.8
connecting to: mongodb://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] 
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] **          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
nitin@IamGroot:~$ sudo service mongodb stop
nitin@IamGroot:~$ sudo service mongodb start
nitin@IamGroot:~$ mongo
MongoDB shell version v3.6.8
connecting to: mongodb://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] 
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] **          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