E.C.I.NETWORKS

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WIFI AUTOMATION – ROBOT AUTOMATION – INSTALLATION MANUAL

Bell Canada; ATL Lab

Bell

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Revisions

Version	Primary Author(s)	Description of Version	Date Completed
0.1	Arijit Saha	First Draft version	May 30, 2017
0.2	Angelo Virgilio	Added template, formatted and updated various sections	June 2, 2017
0.3	Angelo Virgilio	Added New Section - Next steps	June 7, 2017
1.0	Arijit Saha	User Manual – Complete description for MySQL Project	Aug 15, 2017
2.0	Arijit Saha	Final Version – Robot Automation Project (Integrated)	Oct 18. 2017

Review & Approval

Requirements Document Approval History

Approving Party	Version Approved	Signature	Date
Bell Canada: **Bertrand Camus** **Intissar Harrabi**	0.3		

Requirements Document Review History

Reviewer	Version Reviewed	Signature	Date
Angelo Virgilio	0.3		June 9, 2017

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- The software to be installed are listed below. The process of installation is also explained further in the document.
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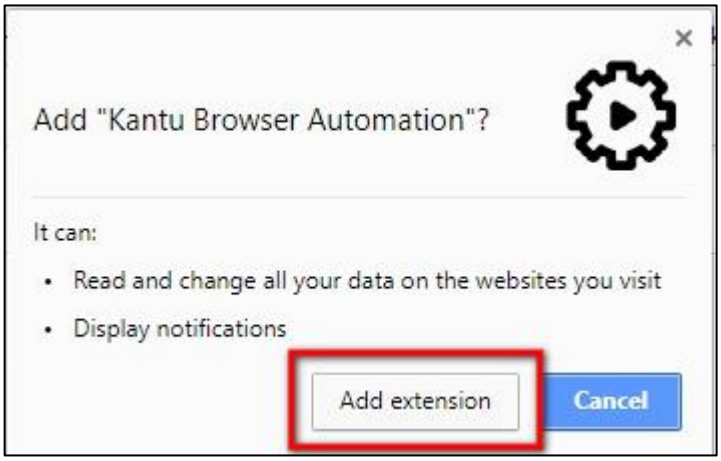
  - » Postman
  - » Newman
  - » Python and PIP
  - » Robot Framework and RIDE
  - » ELK (Elastic Search, Logstash, Kibana)
  - » Jenkins
  - » Selenium
  - » Chrome driver
  - » Node

2. INSTALLATION PROCESS – KANTU

1. Open Chrome App store.
2. Search for Kantu Browser Automation. Click add to chrome.

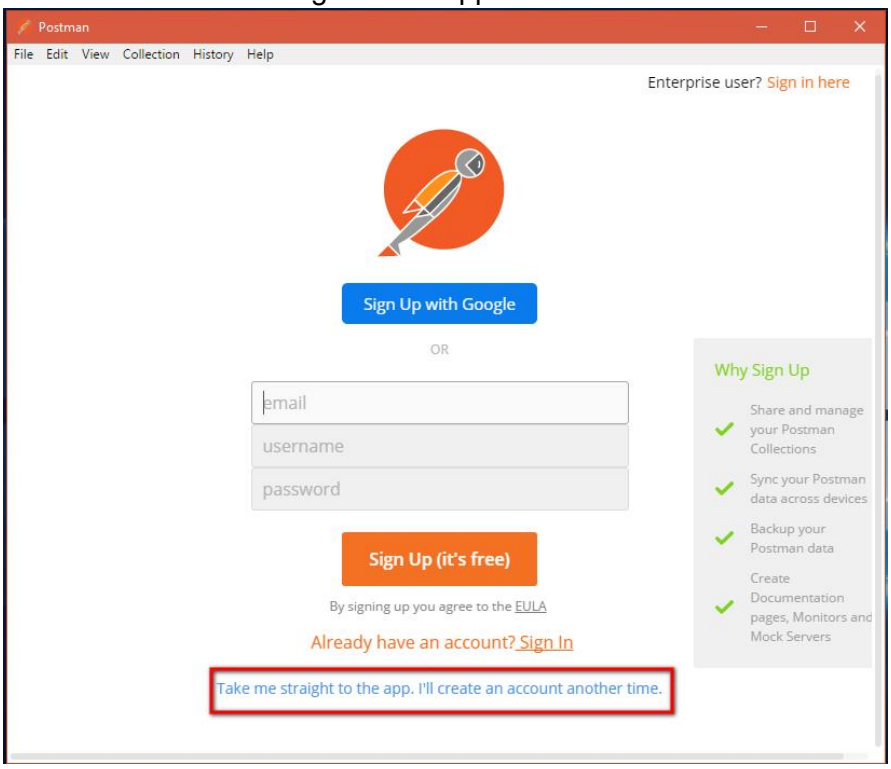
3. It will ask to add extension, give the permission and it will get installed.



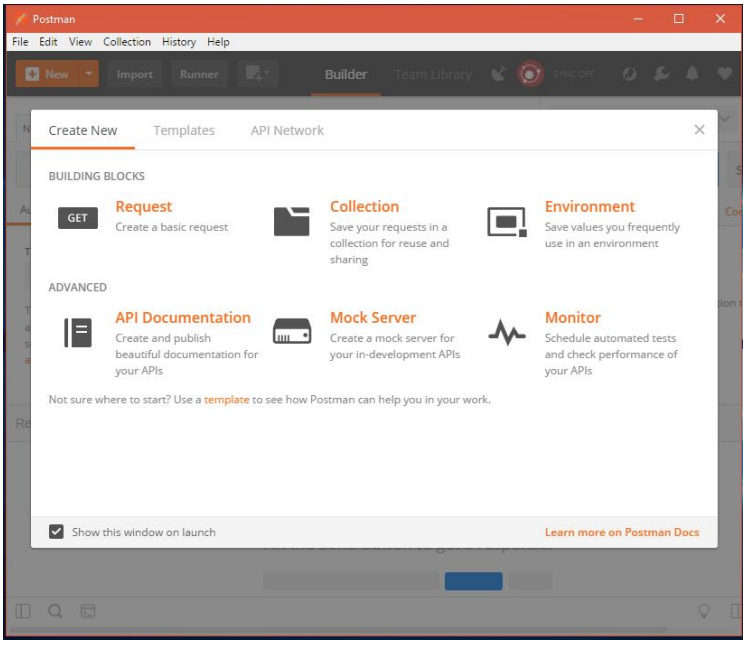
3. INSTALLATION PROCESS – POSTMAN AND NEWMAN

3.1 INSTALL – POSTMAN

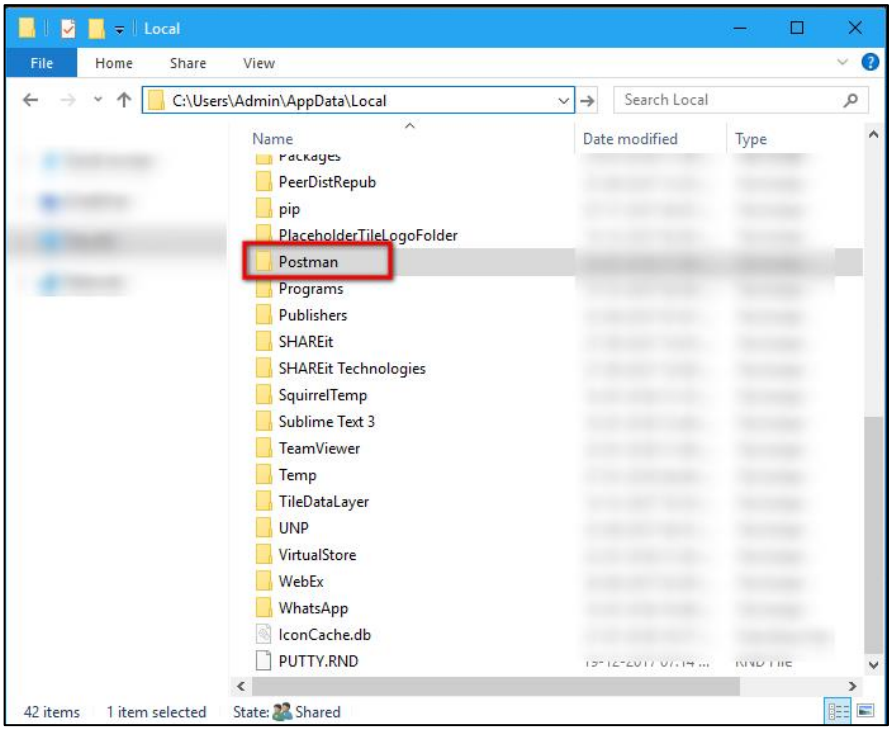
1. Click the link to download to the app for postman: https://www.getpostman.com/
2. Select the version for the OS and click the download.
3. Run the installer
4. Click the “Take me straight to the app”.



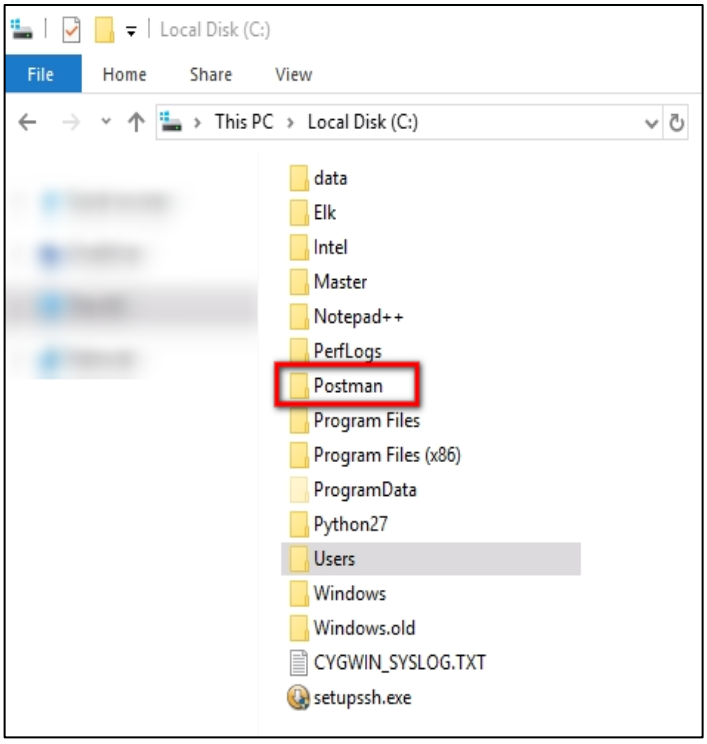
5. Once clicked, it will launch the app.



6. It will be default stored in the "*C:\Users\<System_Name>\AppData\Local\Postman"*.

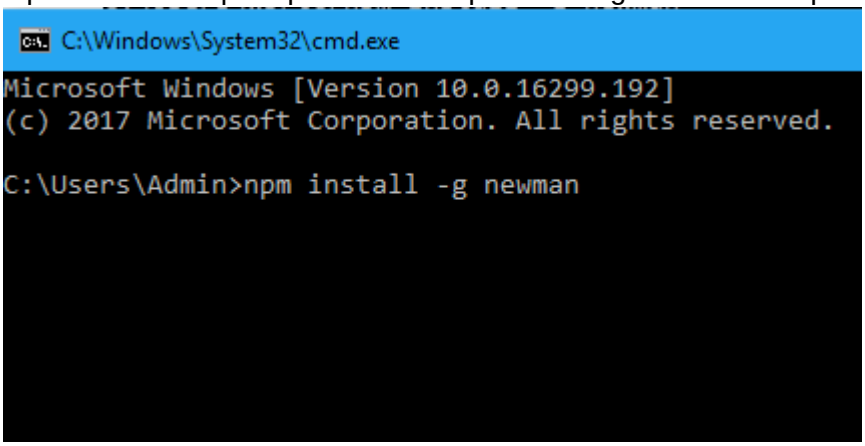


7. Change the folder location to "*C:\Postman*"

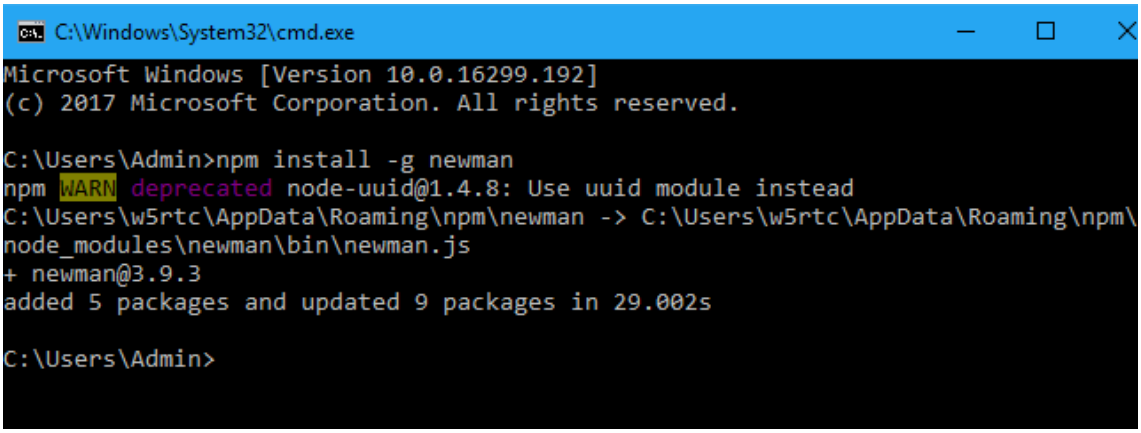


3.2 INSTALL – NEWMAN

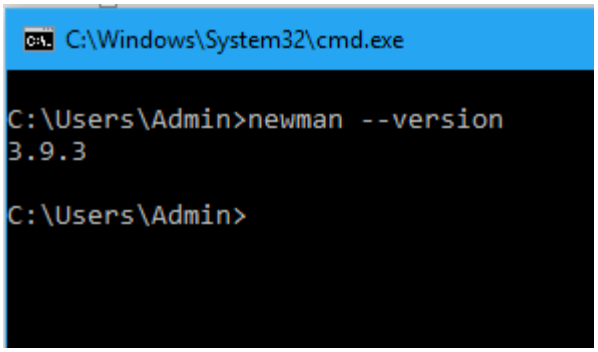
a. The user has to install node first in order to install newman. (Please refer node installation - Node).
b. Open command prompt and enter npm install -g newman and press enter.



c. It will start to install.



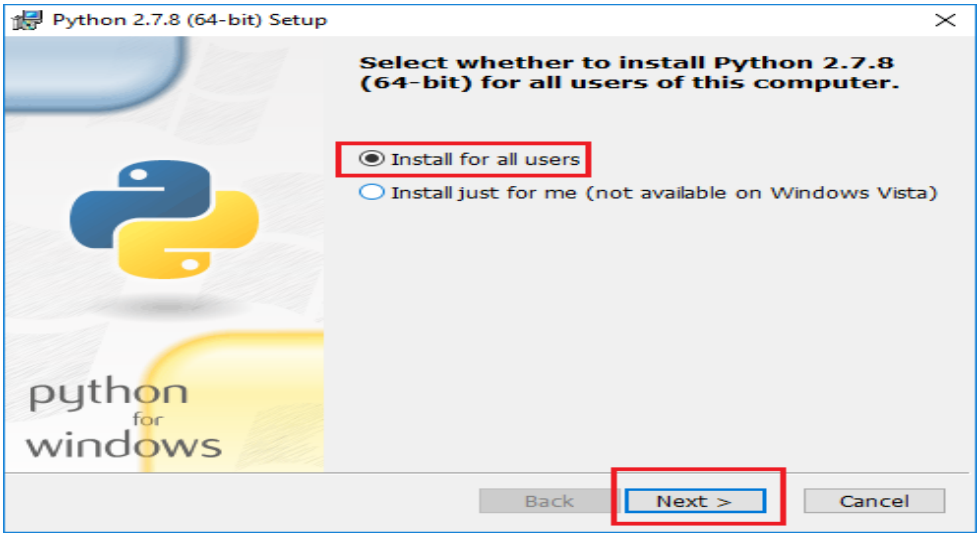
d. To check whether newman is installed, enter newman –version.



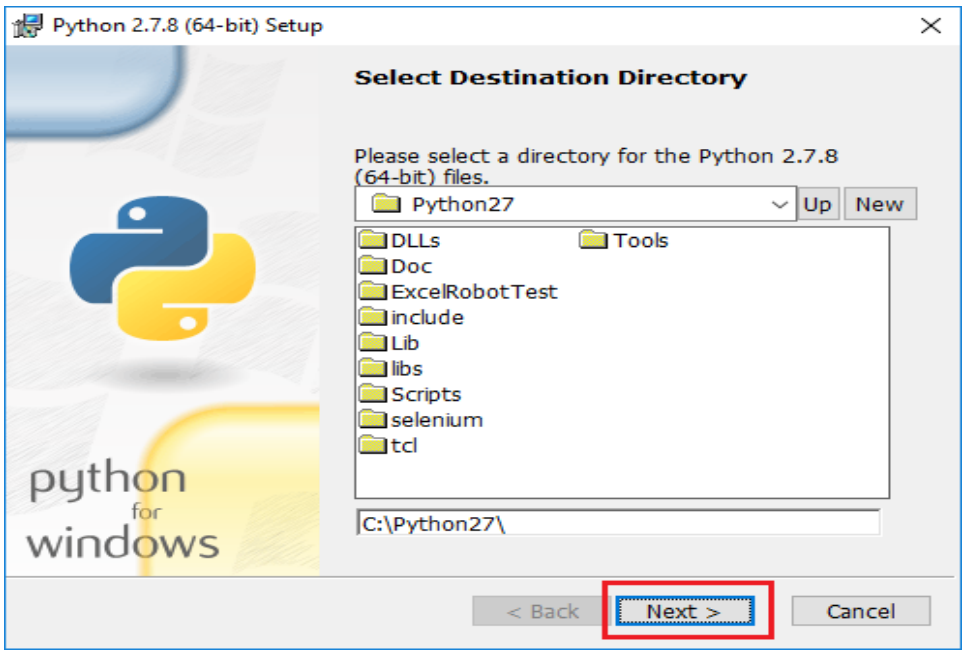
4. INSTALLATION PROCESS – PYTHON

1. Download the Python 2.7.8 installer from https://www.python.org/download/releases/2.7.8/

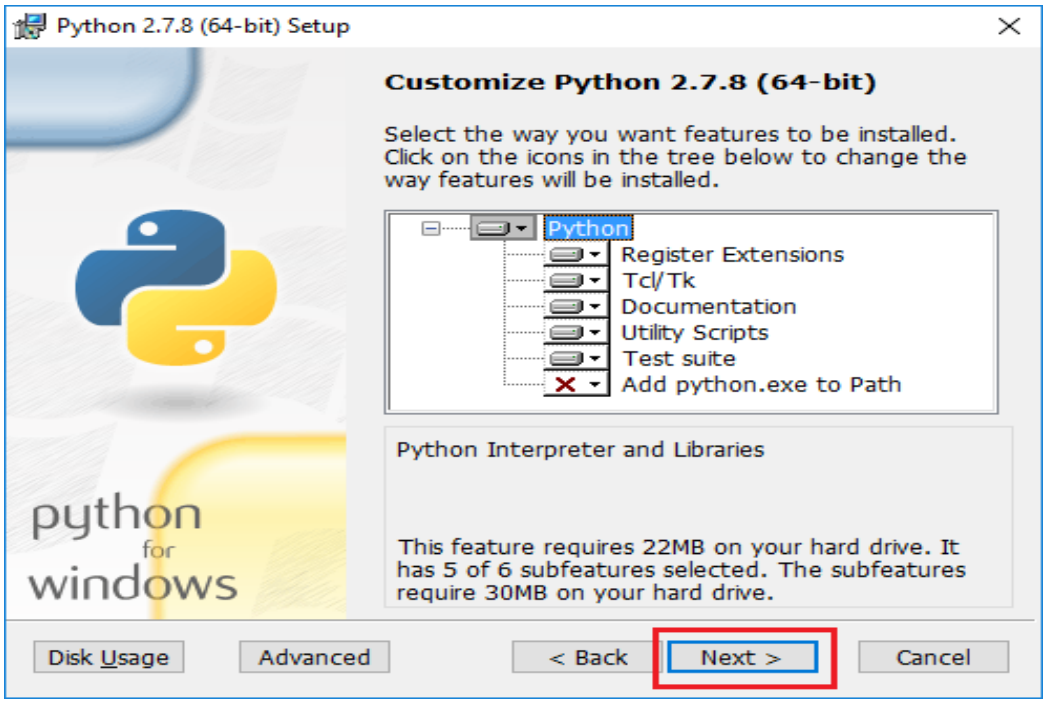
2. Run the installer, select “Install for all users,” and then click “**Next**.” The installer will even set the path variable.



3. On the directory selection screen, keep the installation directory as “**C:\Python27**” and click “**Next**.”.



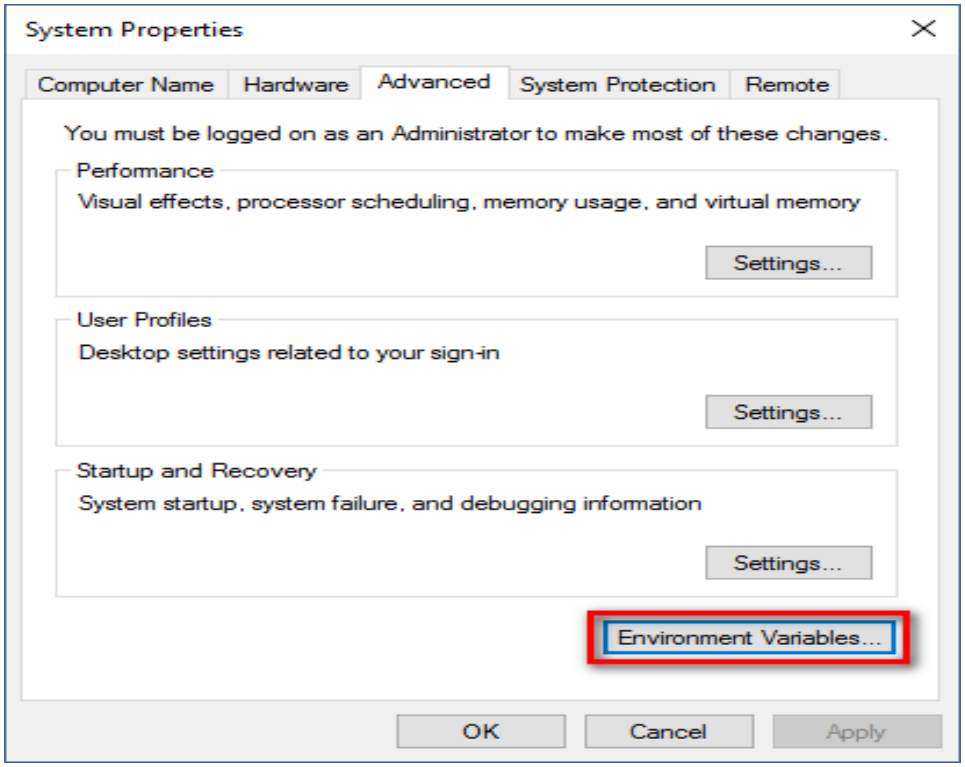
4. On the customization screen, scroll down, to check the options for installing and then click "**Next**".



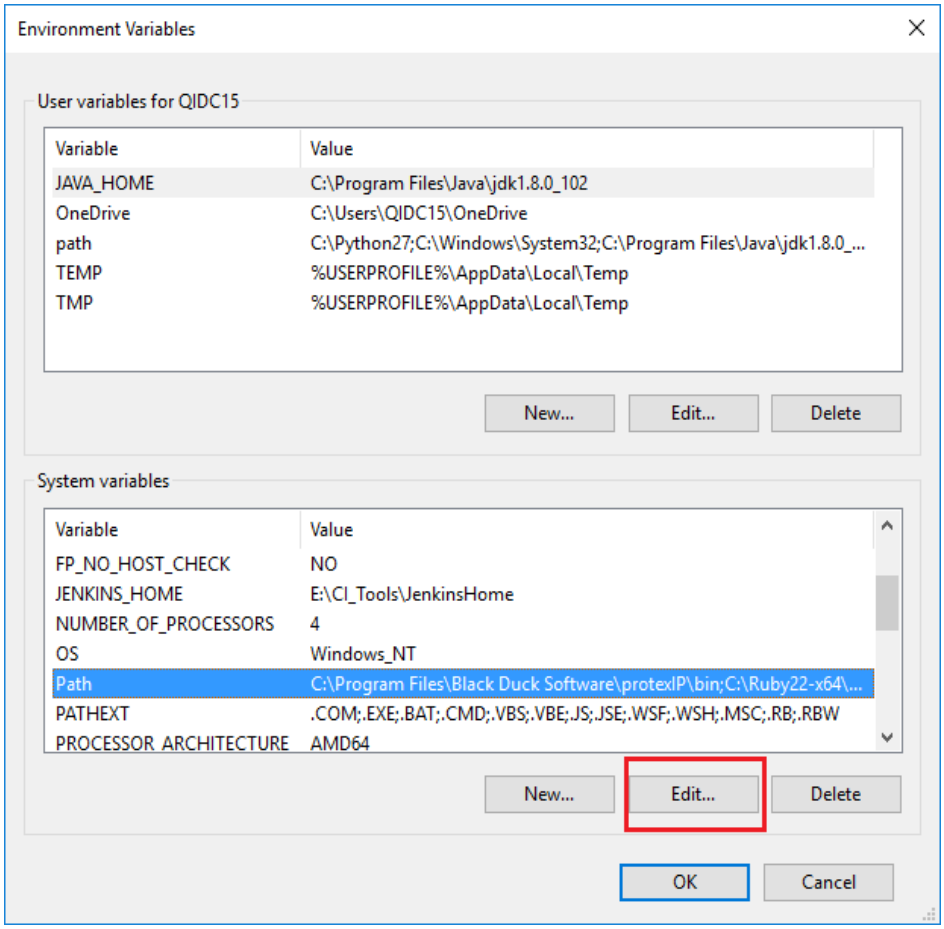
5. Then click "**Finish**" once the installation is complete.

4.1 SETTING UP ENVIRONMENTAL VARIABLES

1. Hit Start, type “advanced system settings,” and then select the “View advanced system settings” option. In the “System Properties” window that opens, on the “Advanced” tab, click the “Environment Variables” button.
2. Open Start > Settings > Control Panel > System > Advanced > Environment Variables. There are User variables and System variables and the difference between them is that User variables affect only the current users, whereas System variables affect all users.



3. Find the “**Path**” variable under “**System Variables**” and select it.
4. After selection, click “**Edit**”. A window will open for where the path variables will be listed. Adding new path variable and editing existing variables can be done.

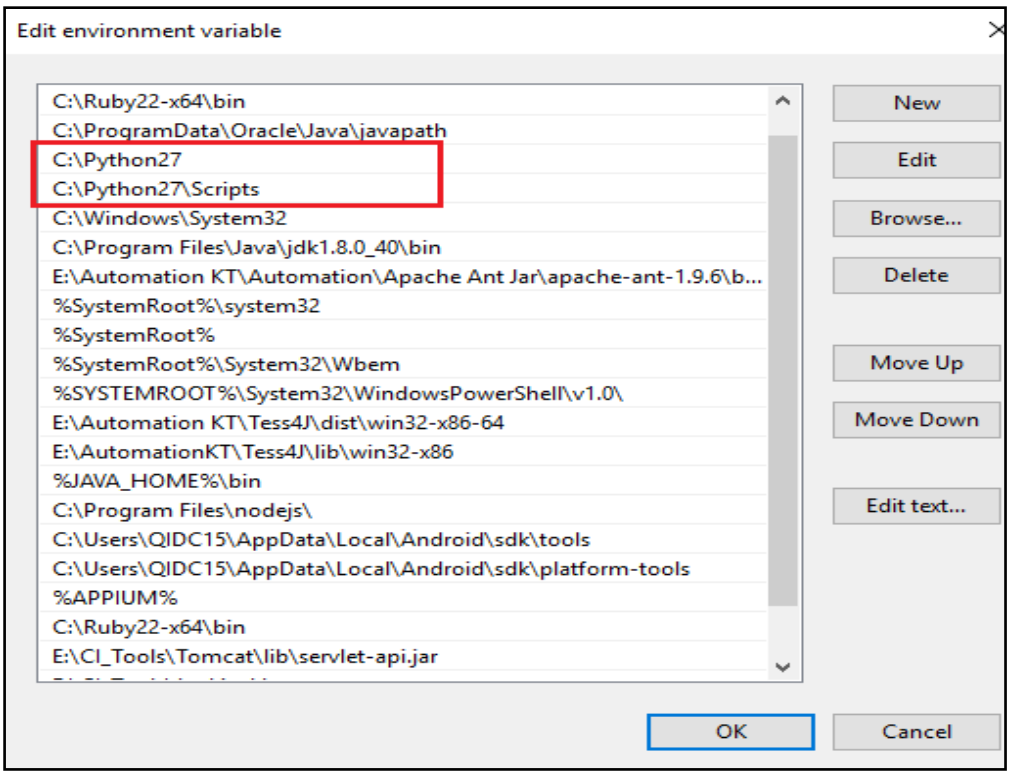


5. Click “**New**” button and enter data in the format

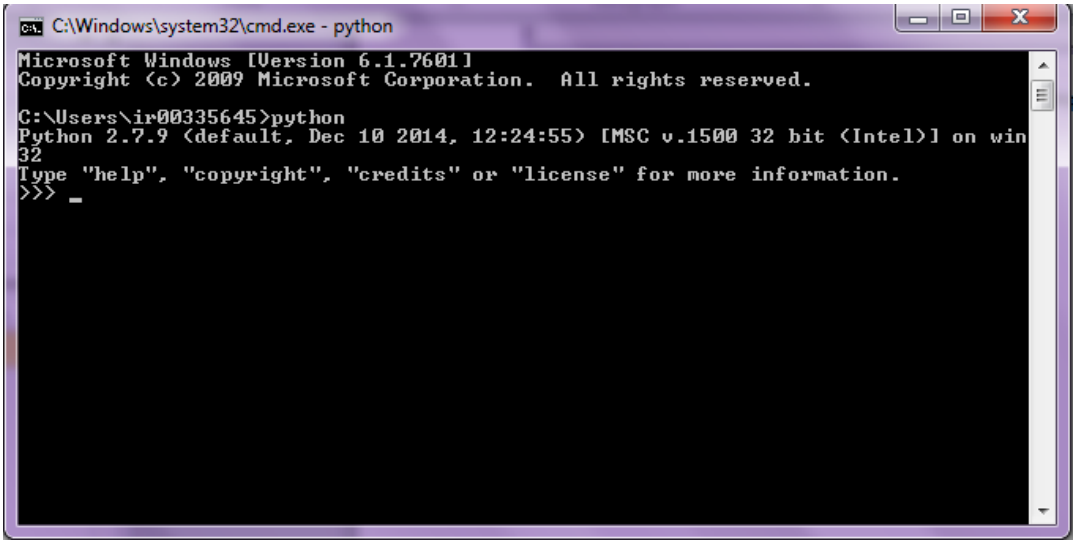
   Enter “**C:\Python27**”.

   Again click “**New**” and enter “**C:\Python27\Scripts**”.

   Click “**Ok**”



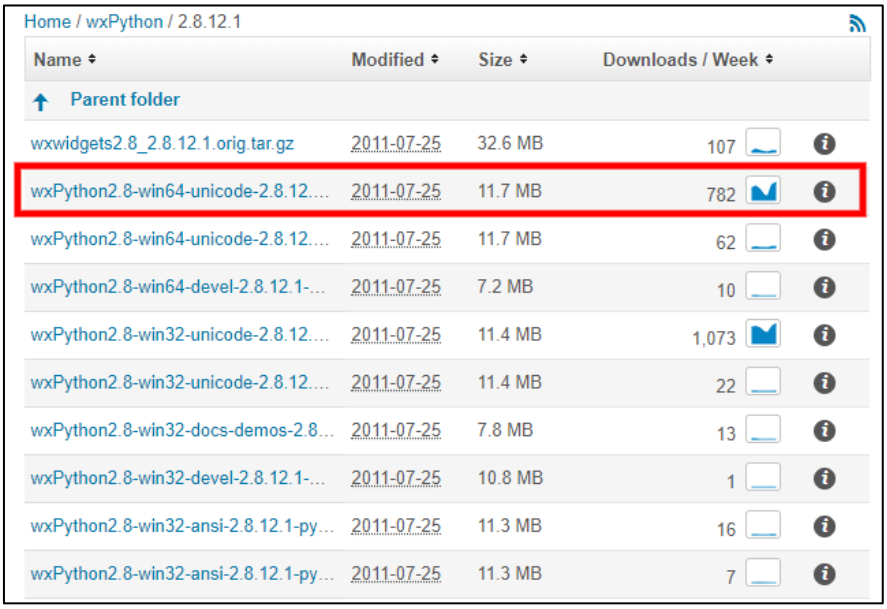
6. From command prompt, type "**python –version**" to make sure that Python has been installed properly.



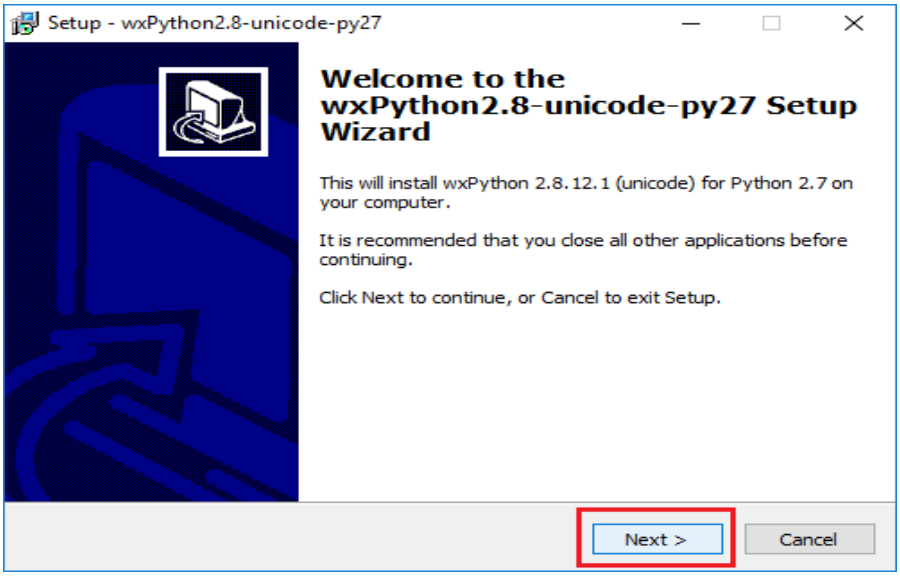
4.2 INSTALL – WXPYTHON

1. Download the wxPython installer from https://sourceforge.net/projects/wxpython/files/wxPython/2.8.12.1/

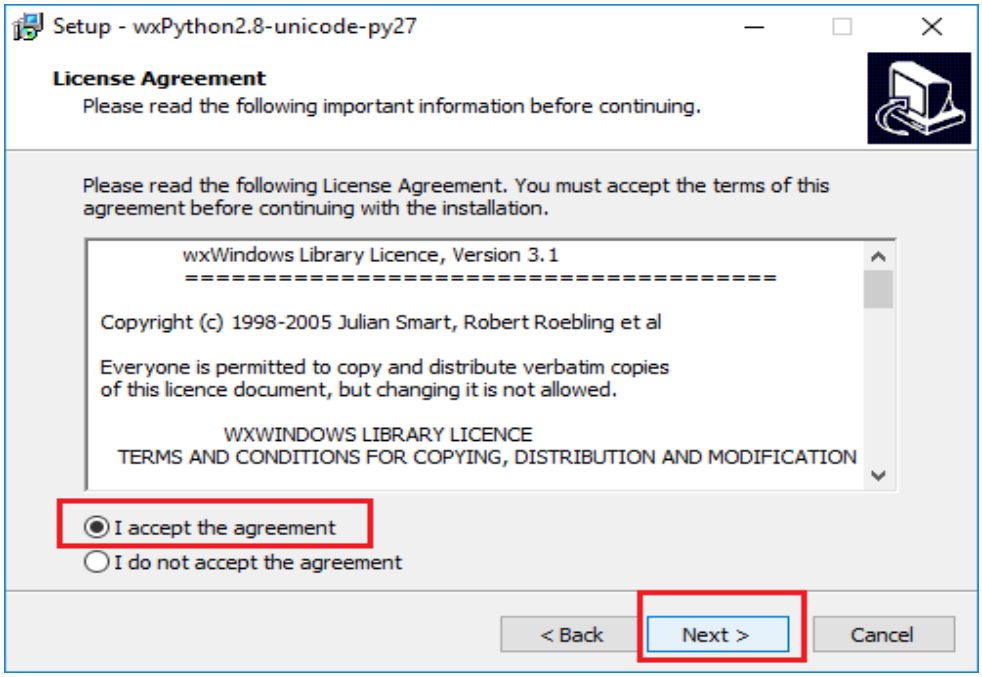
2. Open the link and click on "**wxPython2.8-win64-unicode-2.8.12.1-py27.exe**"



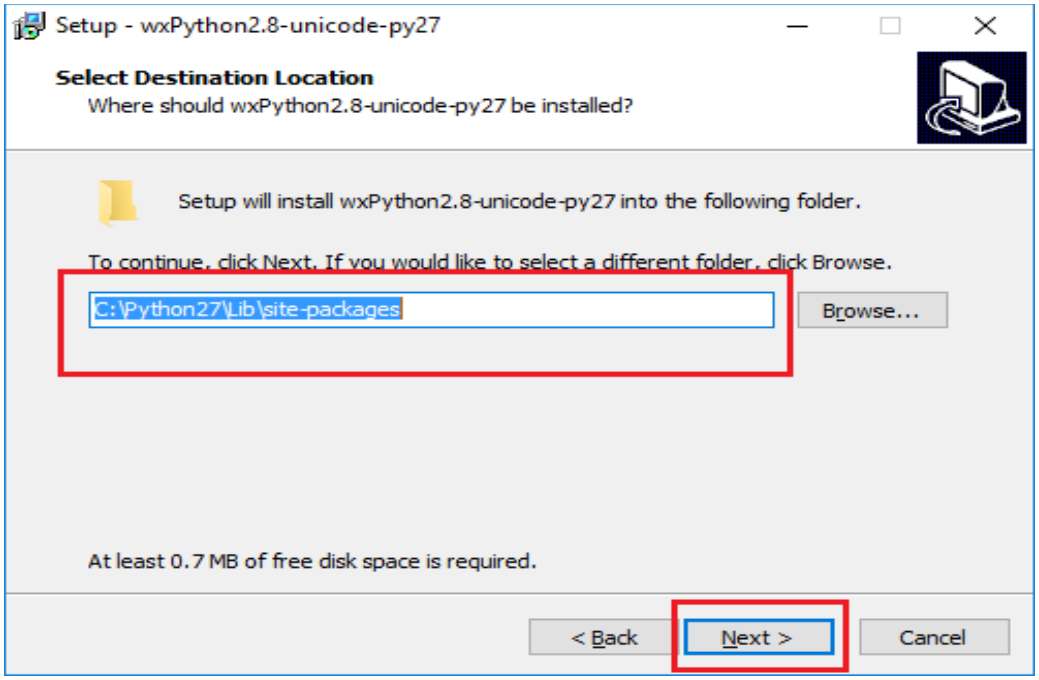
3. Run the installer and click "**Next**" to continue the setup.



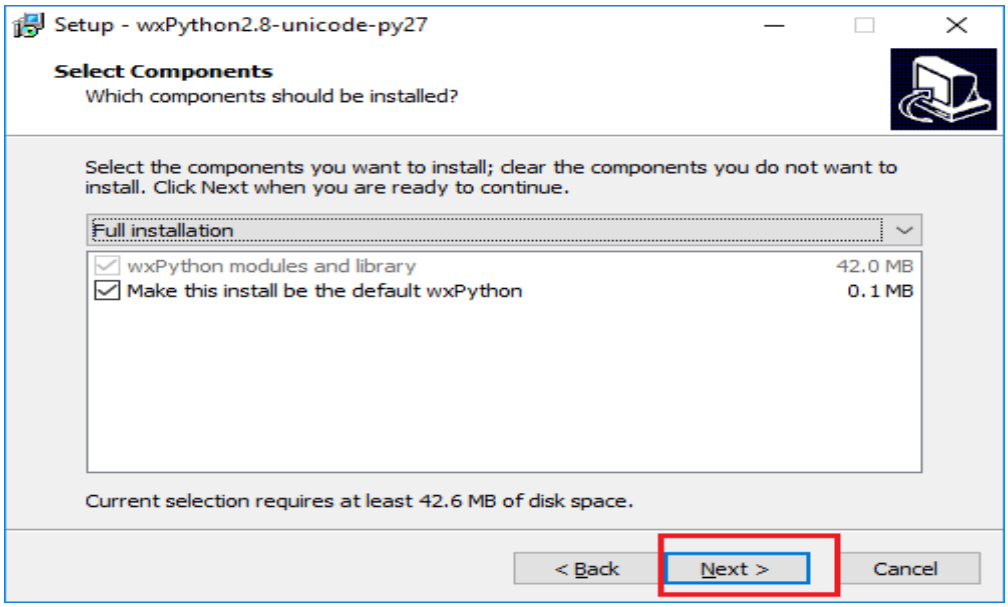
4. In the window, click on radio button to accept the terms of agreement.



5. Click “**Next**” after keeping the default directory “**C:\Python27\Lib\siti-packages**” chosen for the installation for this program.



6. Click on “Next” after selecting “**Full Installation**” from the drop down and selecting the checkbox for “**Make this install be the default wxPython**”.



7. The installation process will follow and complete after this.

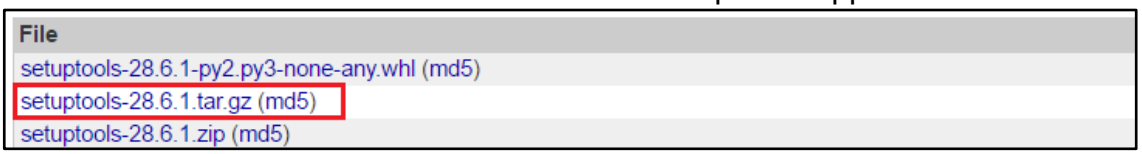
   A command line interface will open and the installation will continue.

   If the "**ReadMe.txt**" file is open, then close it.

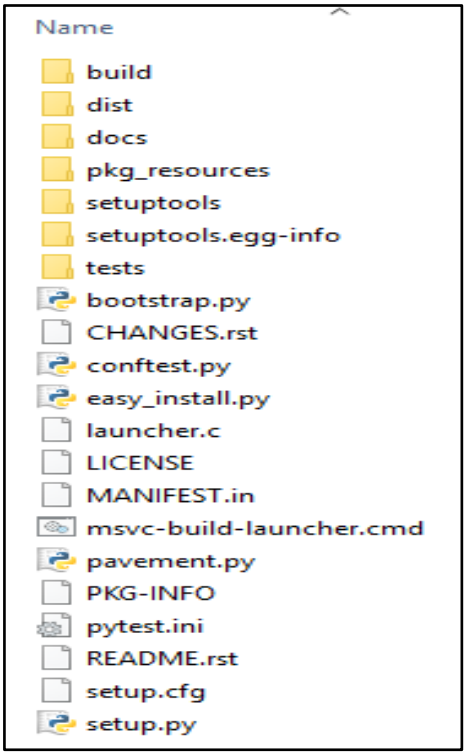
4.3 INSTALL – SETUP TOOLS

a. Download setuptools from https://pypi.python.org/pypi/setuptools/28.6.1.

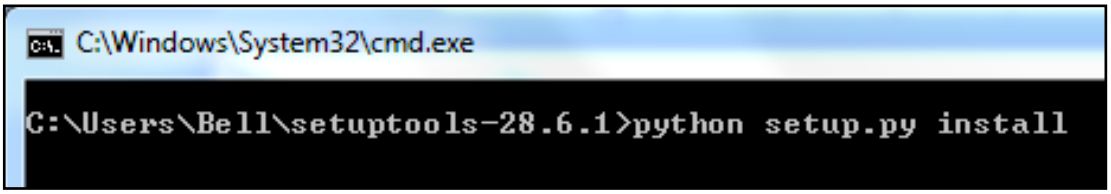
b. Scroll down and click the link to download the setuptools zipped folder.



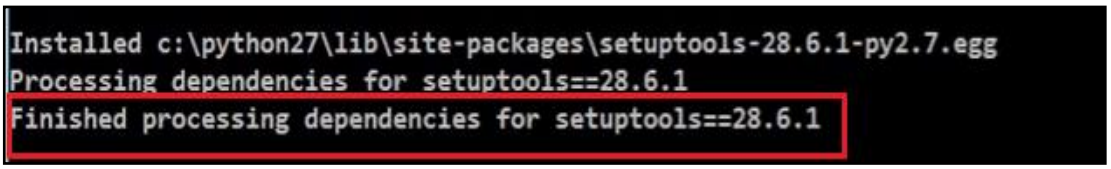
c. Unzip the download folder in "**In\Desired\Location**" and the extracted folder "**In\Desired\Location \setuptools-28.6.1**" should have the contents as follows:



d. Open the command line and browse by changing directory to the extracted folder and type "**python setup.py install**"



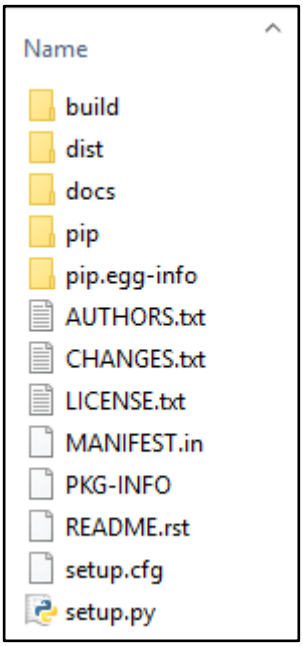
e. The entire setup will run and the message will appear which will show the successful installation of setuptools.



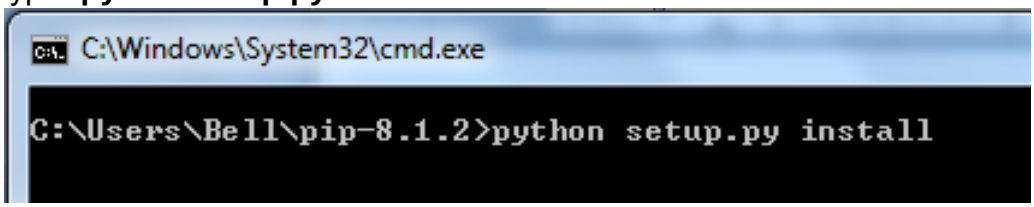
4.4 INSTALL – PIP

a. Download pip from https://pypi.python.org/pypi/pip?
b. Scroll down and click the link to download the pip zipped folder.

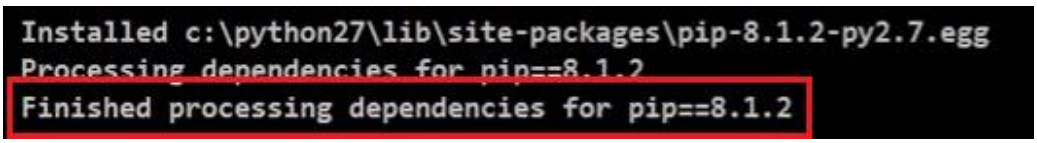
c. Unzip the download folder in "**In\Desired\Location**" and the extracted folder "**In\Desired\Location \pip-8.1.2**" should have the contents as follows:



d. Open the command line and browse by changing directory to the extracted folder and type "**python setup.py install**".



e. The entire setup will run and the message will appear which will show the successful installation of pip.



5. INSTALLATION PROCESS – ROBOT FRAMEWORK AND RIDE

5.1 INSTALL – ROBOT FRAMEWORK

1. Open the command prompt and browse to "**C:\Users\<System_Name>**" and type in "**pip install robotframework**"

2. The successful message will be shown after installation.

5.2 INSTALL – RIDE

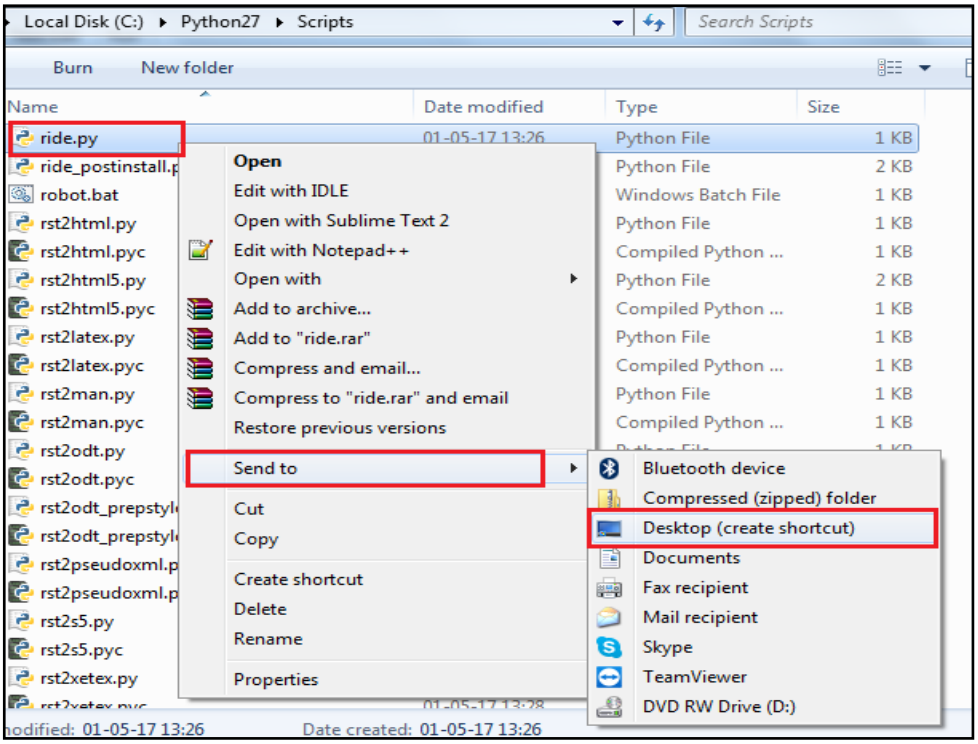
a. Open the command prompt and browse to "**C:\Users\<System_Name>**" and type in "**pip install robotframework-ride**"

```
C:\Users\Bell>pip install robotframework-ride
```

b. The successful message will be shown after installation.

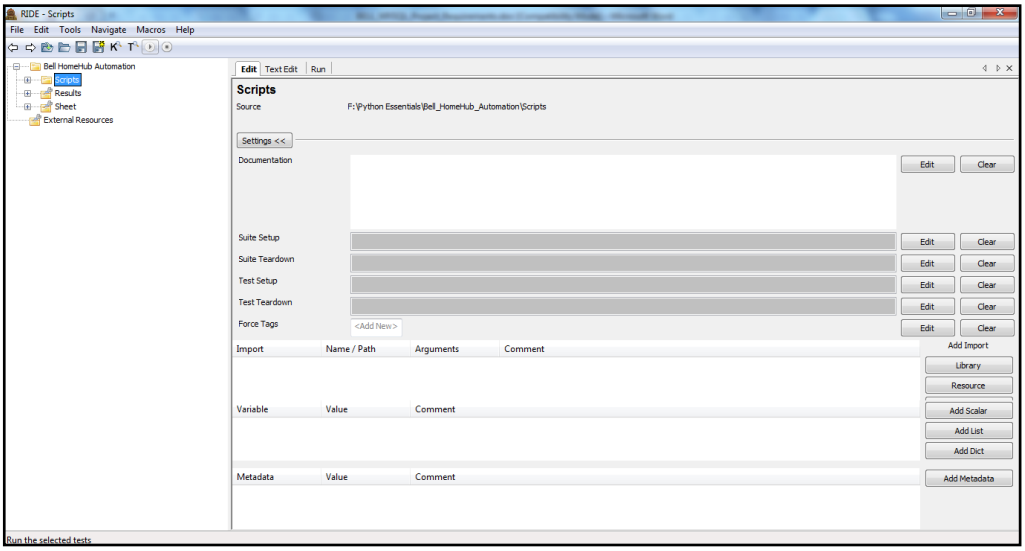
```
Installing collected packages: robotframework-ride
  Running setup.py install for robotframework-ride ... done
Successfully installed robotframework-ride-1.5.2.1
```

c. Create a shortcut of RIDE on the desktop by opening the folder "**C:\Python27\Scripts**" and right-click on "**ride.py**".
After the popup menu appears, select "**Send to**" and select "Desktop **(create shortcut)**"



d. Rename the created shortcut to "**ROBOTAutomation RIDE.**"

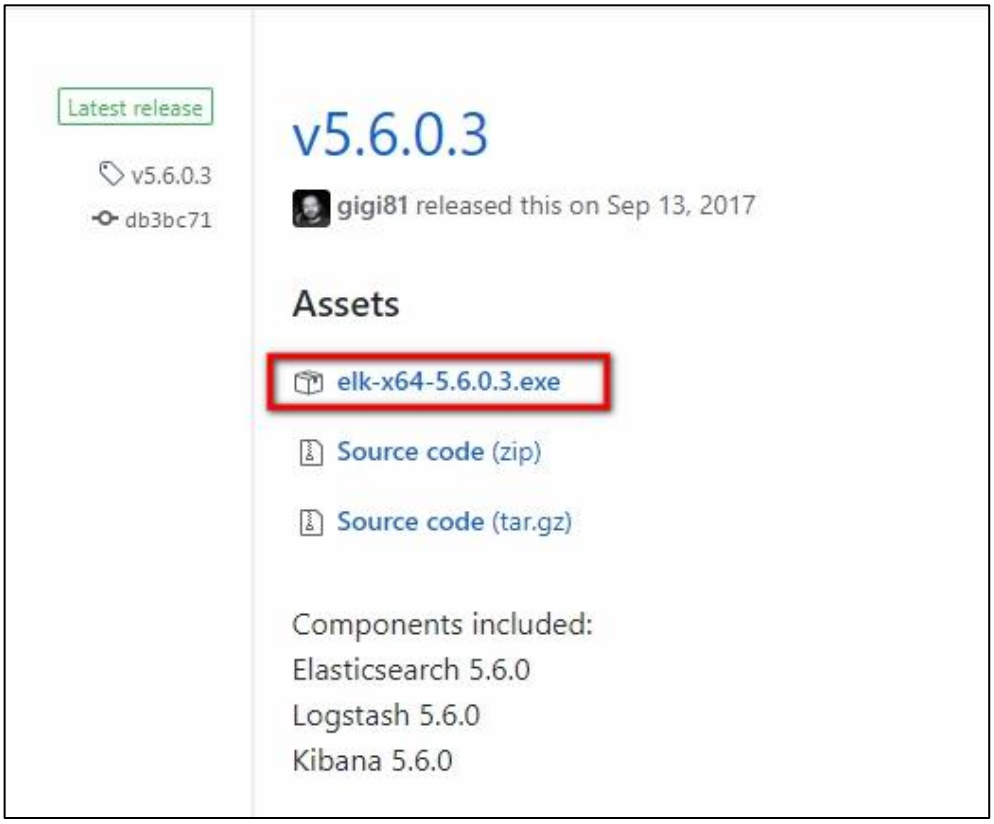
e. Double click on shortcut icon to open the RIDE window.


RIDE - Scripts
File Edit Tools Navigate Macros Help
Bell HomeHub Automation
Scripts
Results
Sheet
External Resources
Edit Text Edit Run
Scripts
Source
F:\Python Essentials\Bell_HomeHub_Automation\Scripts
Settings <<
Documentation
Edit
Clear
Suite Setup
Suite Teardown
Test Setup
Test Teardown
Force Tags
<Add New>
Import
Name / Path
Arguments
Comment
Add Import
Library
Resource
Variable
Value
Comment
Add Scalar
Add List
Add Dict
Metadata
Value
Comment
Add Metadata
Run the selected tests

6. INSTALLATION – ELK

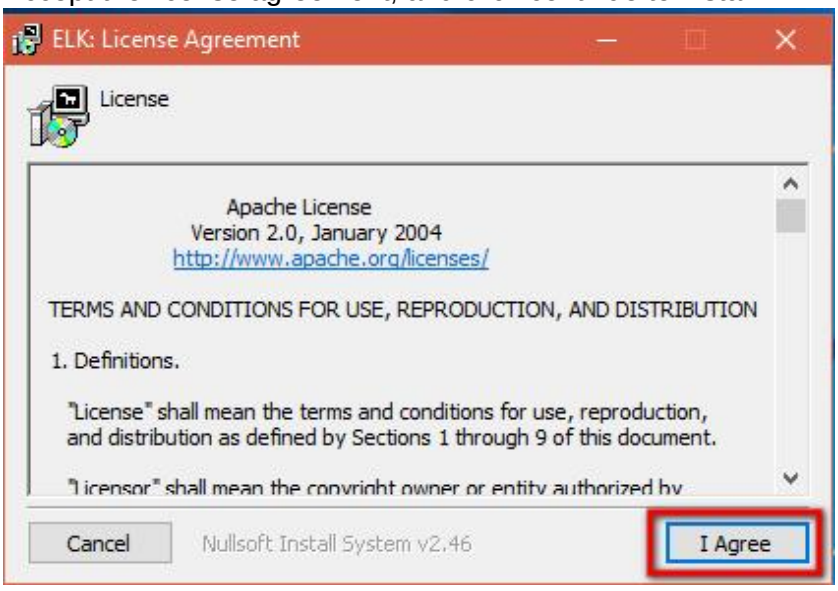
a. Click the link below to download the ELK (Elastic Search, Kibana and Logstash) installer: https://www.codeproject.com/Tips/1083311/ELK-Stack-Install-on-Windows

b. In your browser, link the installer to start the download.

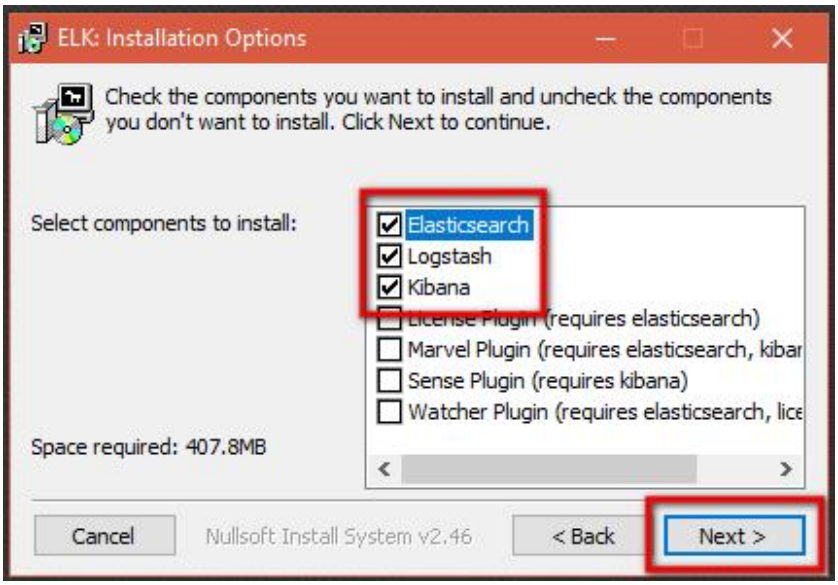


c. Run the installer from the downloads.

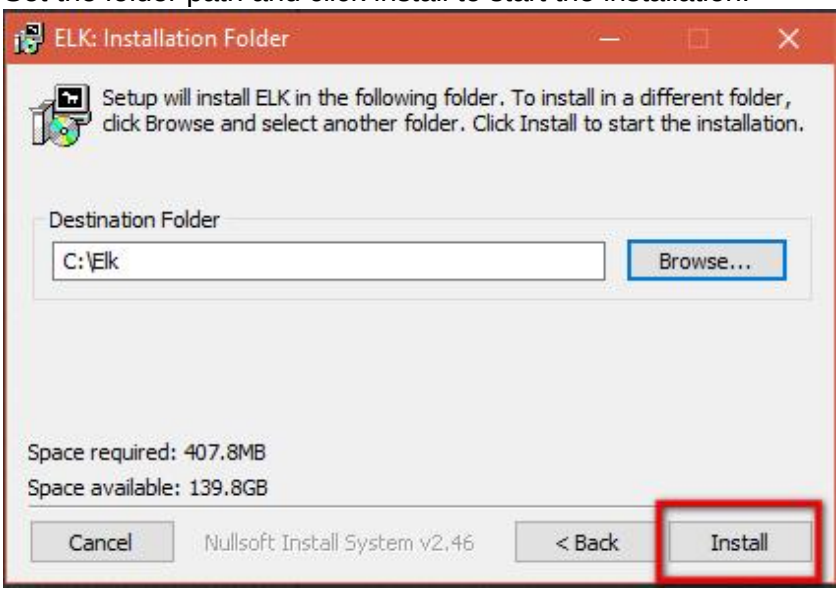
d. Accept the license agreement, and click continue to install.



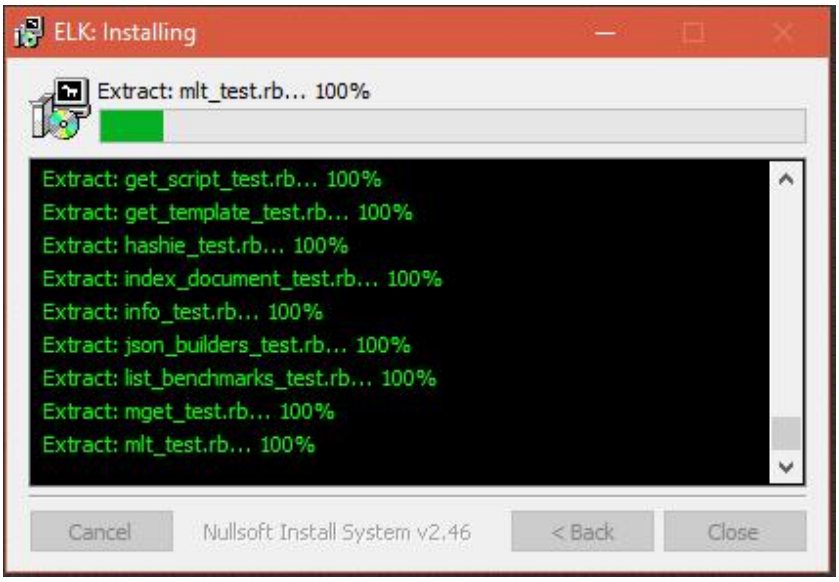
e. Select Elasticsearch, Logstash and Kibana and click Next button.



f. Set the folder path and click install to start the installation.



g. It will start the installation.

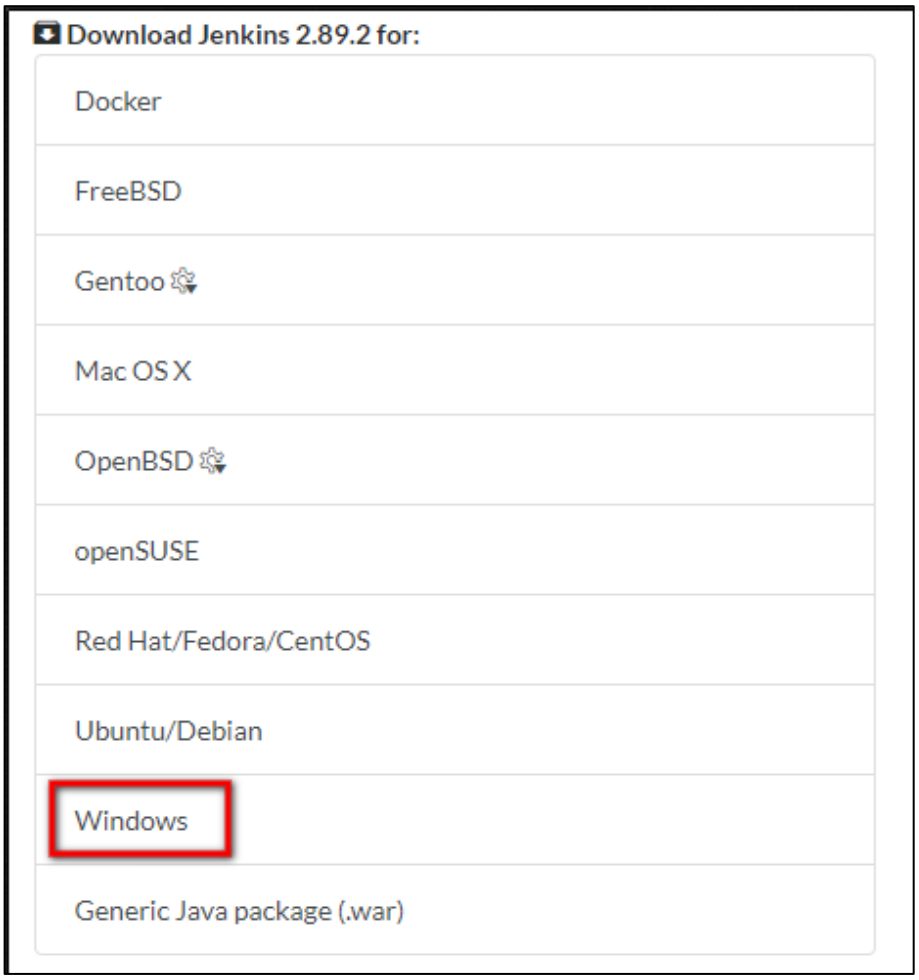


h. Once the installation is complete, click Finish to end the setup.

7. INSTALLATION – JENKINS

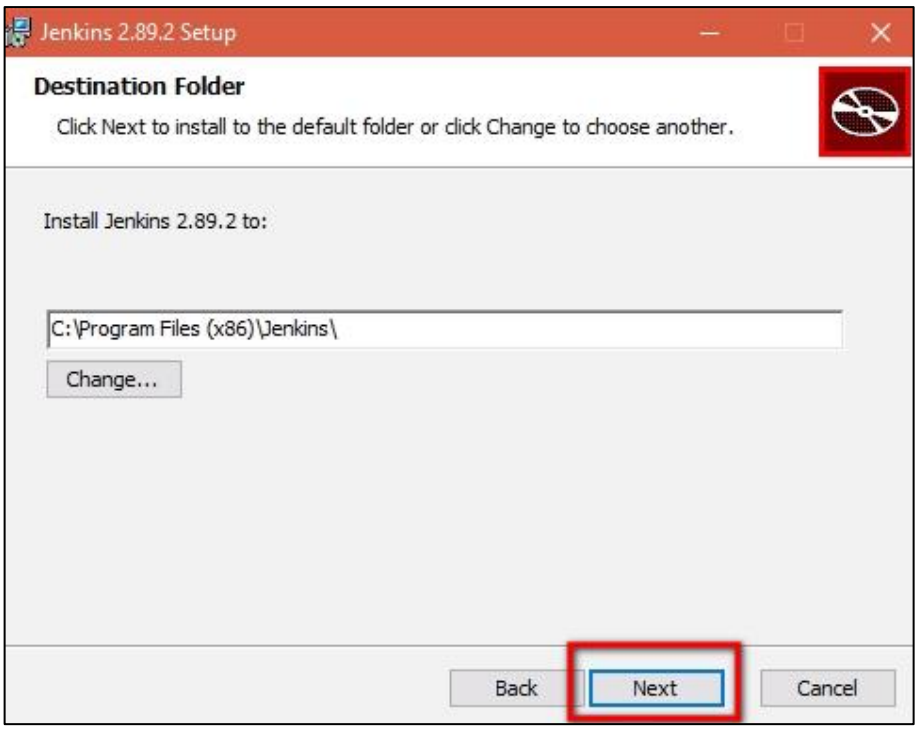
1. Click on the link below to download Jenkins:
   https://jenkins.io/download/

2. Scroll down and select to download based on the OS requirement. In the below example, it is shown for windows.

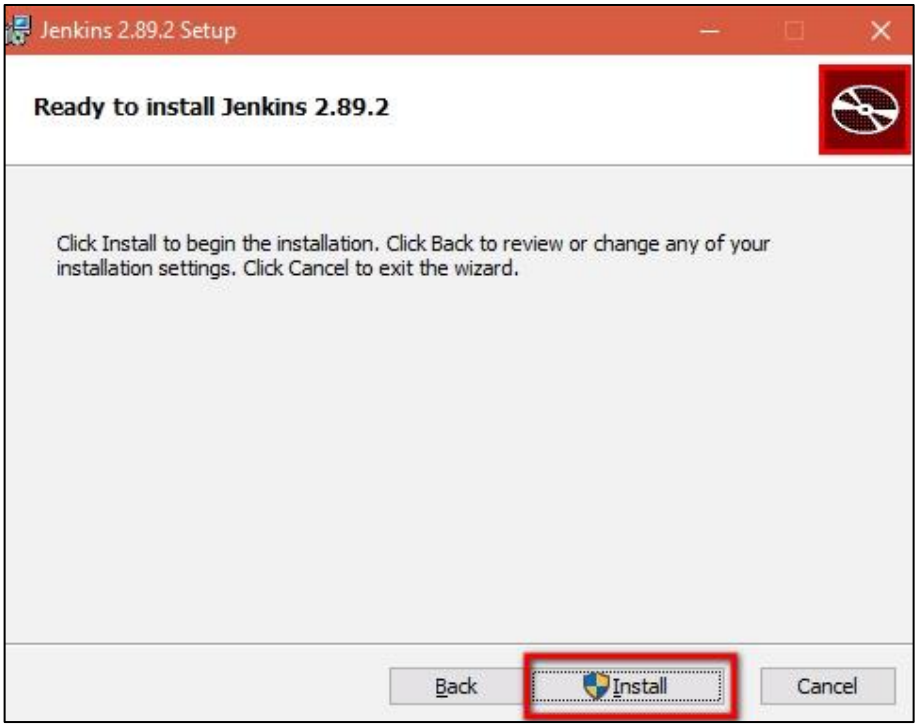


3. Run the installer.
4. Click **Next** button to accept the license agreement.

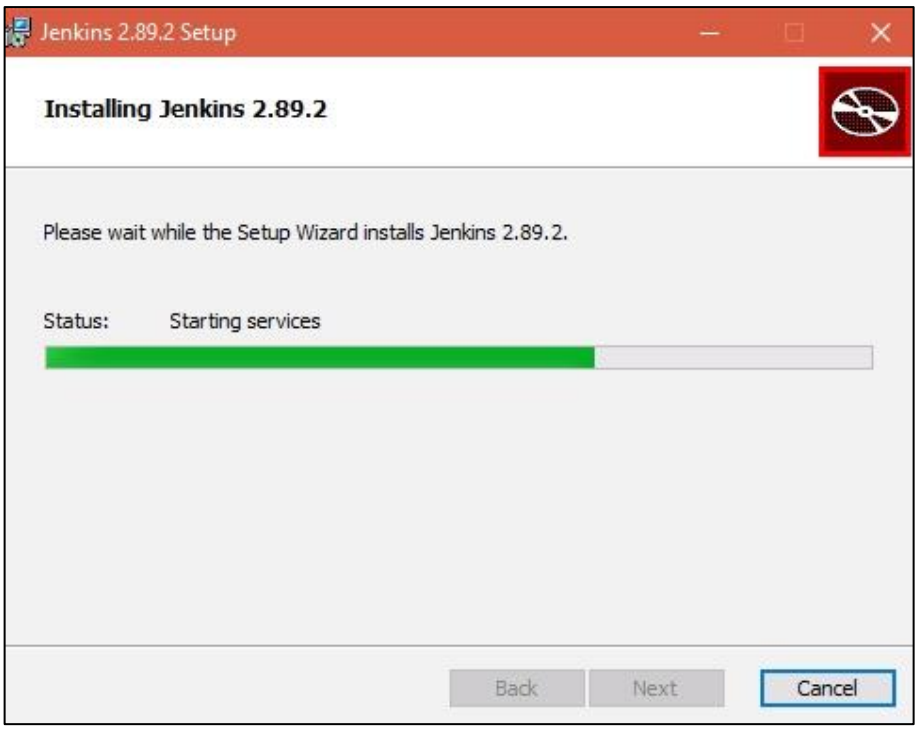
5. click **Next** button to set the folder location.



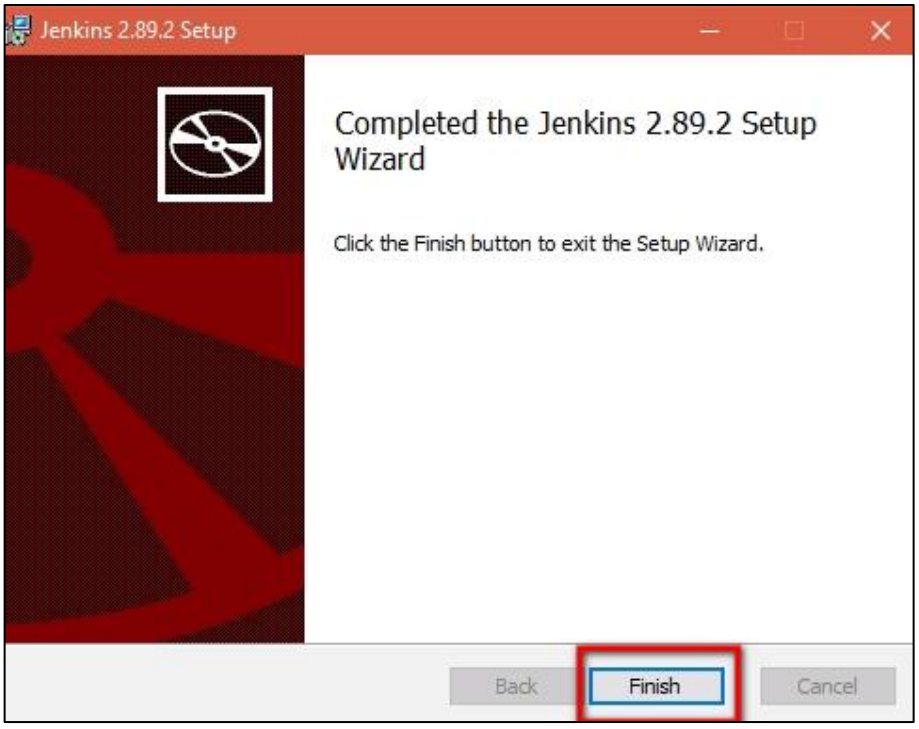
6. Click Install to start the installation.



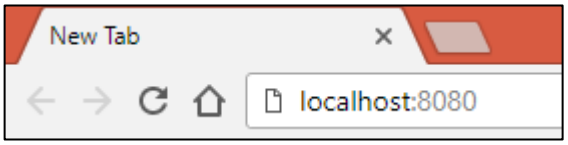
7. Then it will start to install.



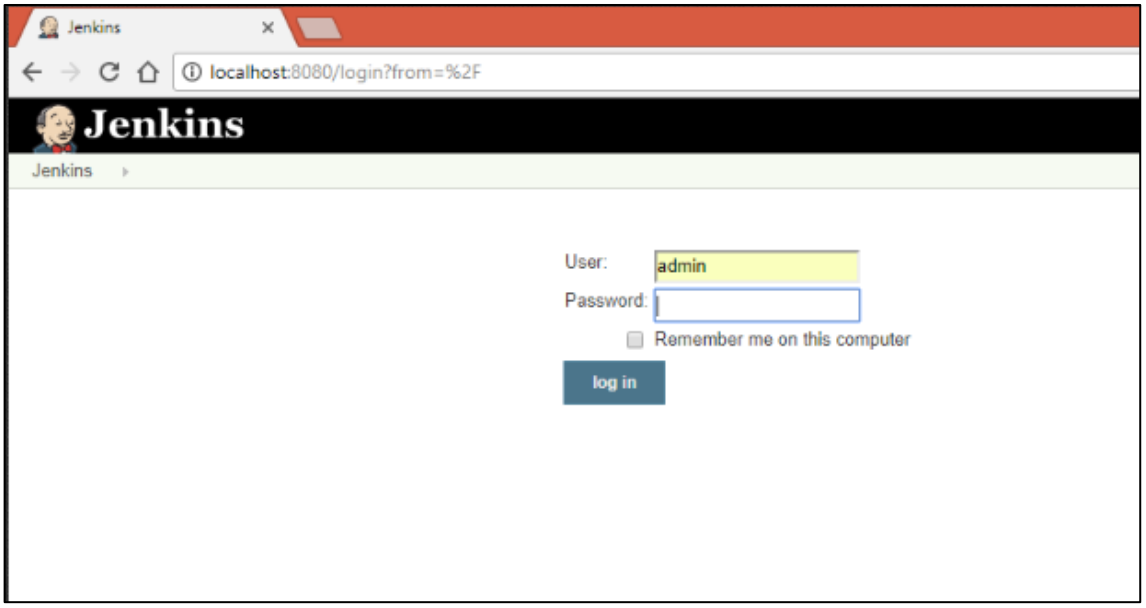
8. Once complete, click Finish to end the installation.



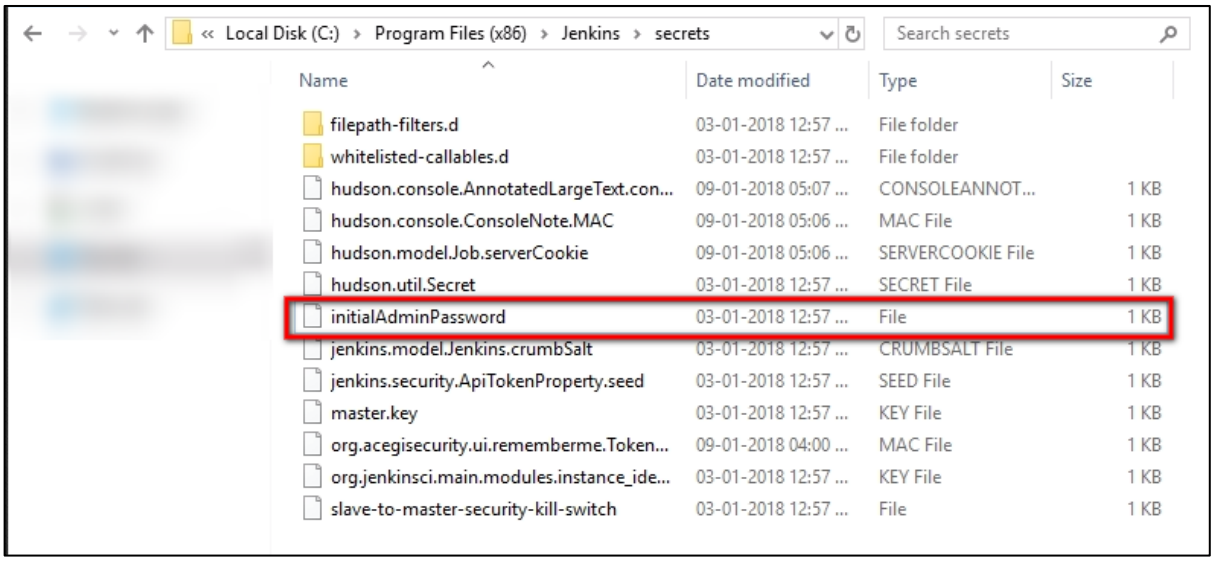
9. Open chrome
10. In the URL bar, enter “localhost:8080” and press enter



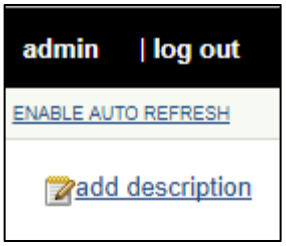
11. It will open Jenkins login page.



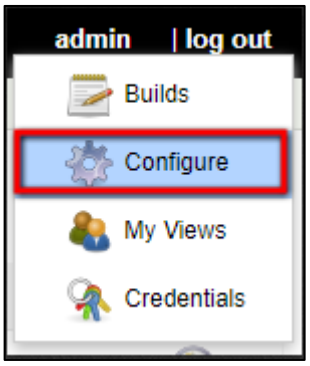
12. For the first to login, the password will be given in the following folder location:
    C:\Program Files (x86)\Jenkins\secrets
13. In the above folder, find a file called **initialAdminPassword**.



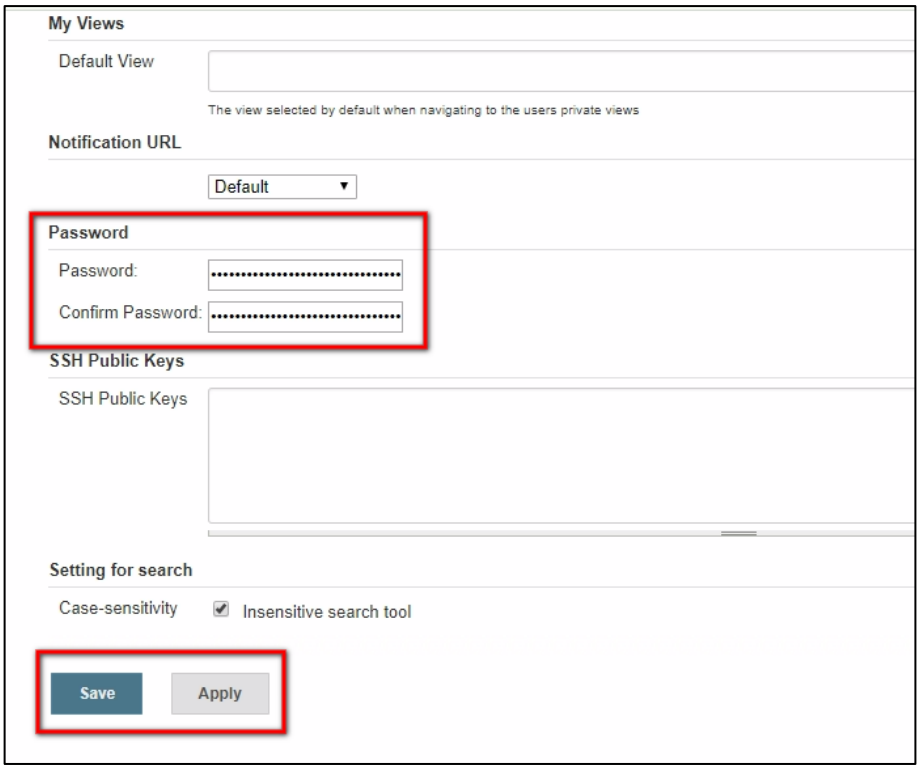
14. Open that file and copy the contents inside and paste the same in password text box.
15. After logging in, on the right top, find the user name that was given during logging in.



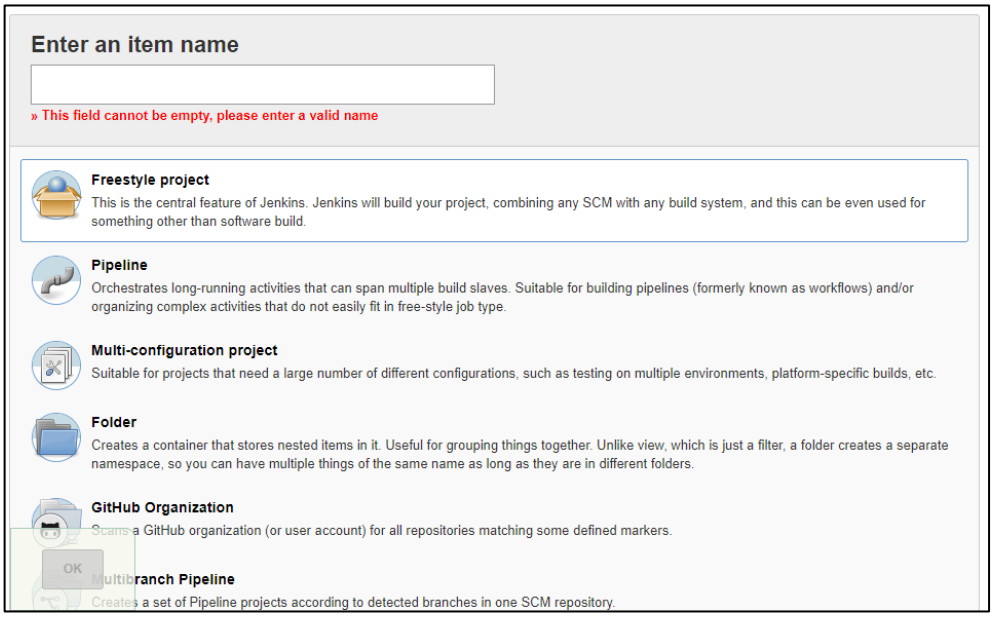
16. Under that click Configure.



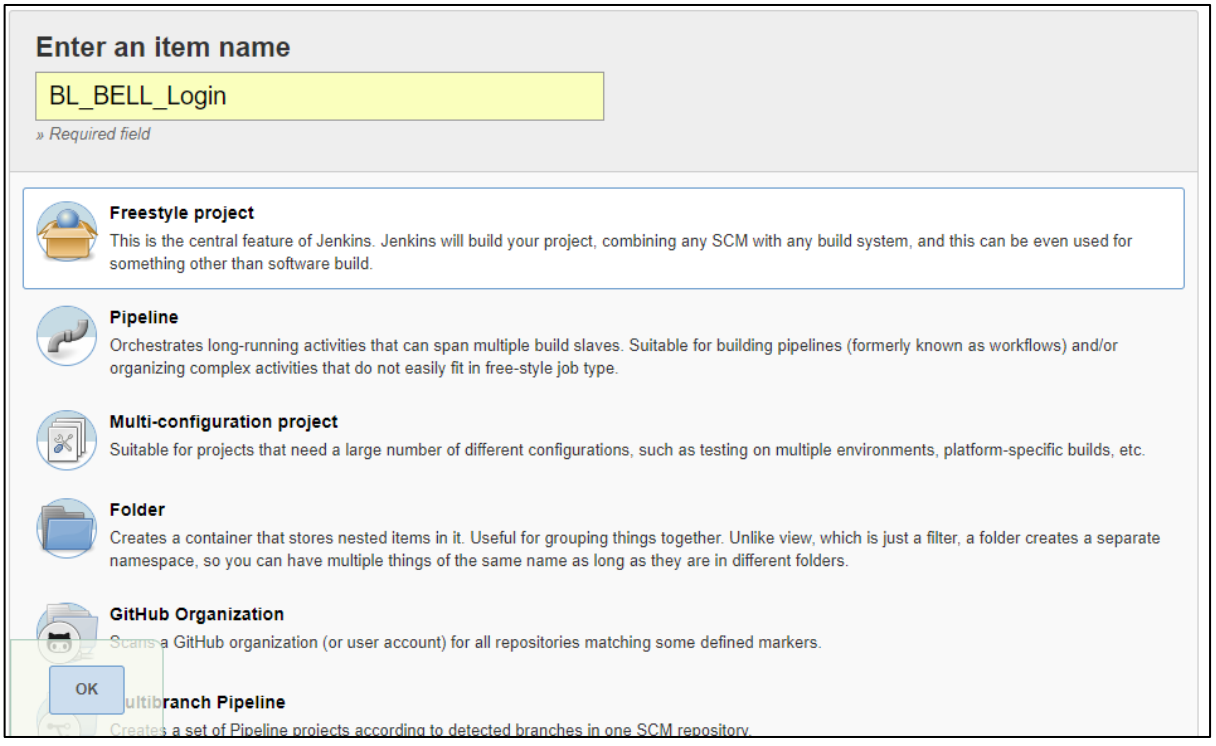
17. Scroll down and find the Password and Confirm Password.



18. Now here change to your desired password. Click Apply and Save to save the changes.
19. To create a new job, click **New Item**.
20. Give the test case name to create a new job.

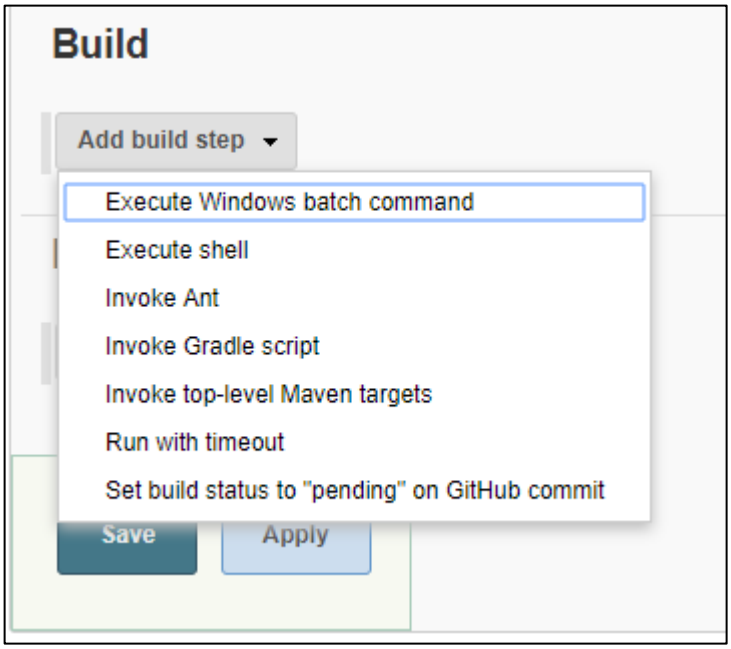


21. Then select the type of the job that is to be created.
22. Click Ok to save the job.

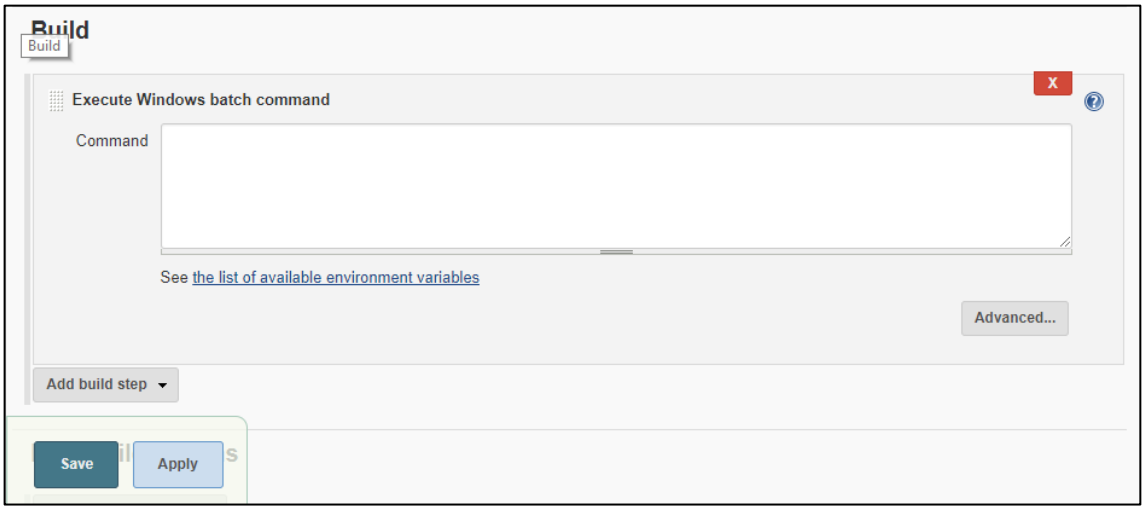


23. On click of Ok button, job configuration page will appear.
24. Scroll down and look for Build.

25. Under build, click Add Build Setup drop down.



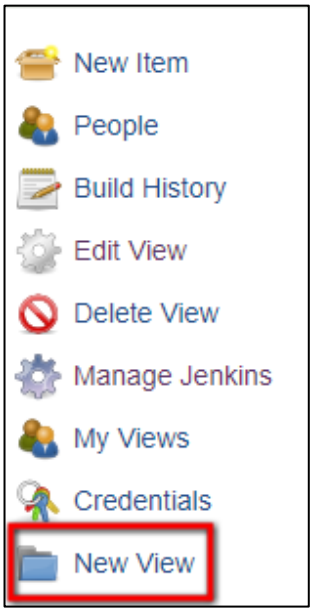
26. From the drop down, select **Execute Windows Batch Command.**
27. On selecting, a text area appears.



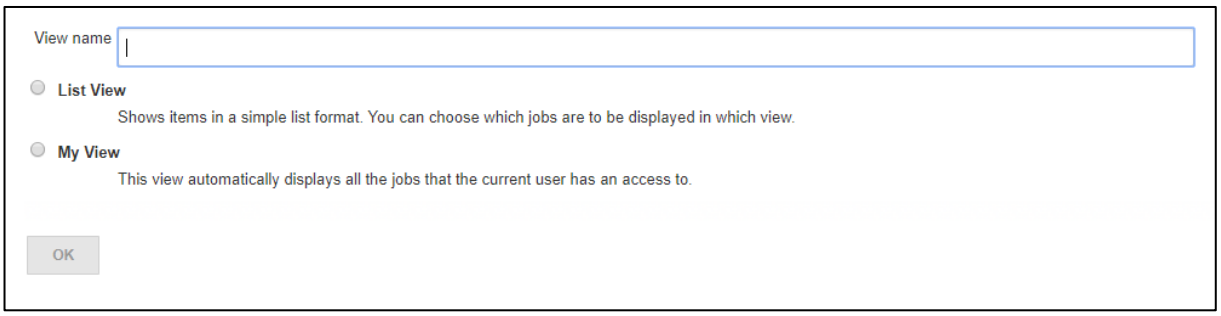
28. In the text area, write the following command.

7.1 CREATING NEW VIEW

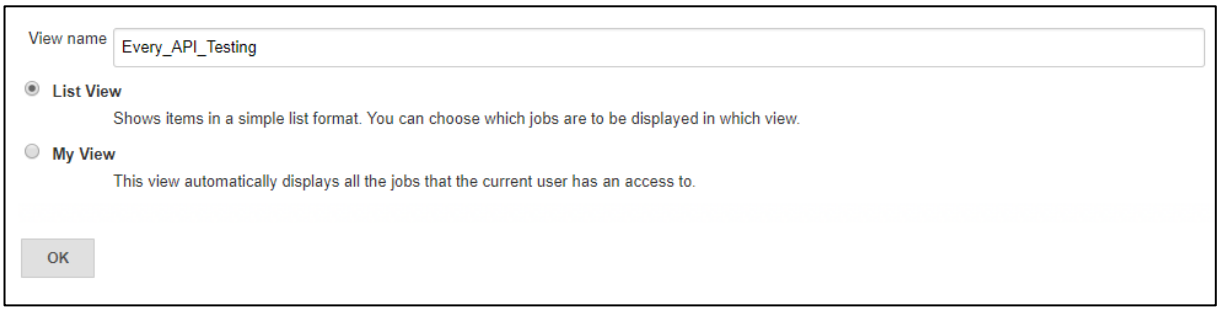
1. To create a new view, on the left panel, click **New View**.



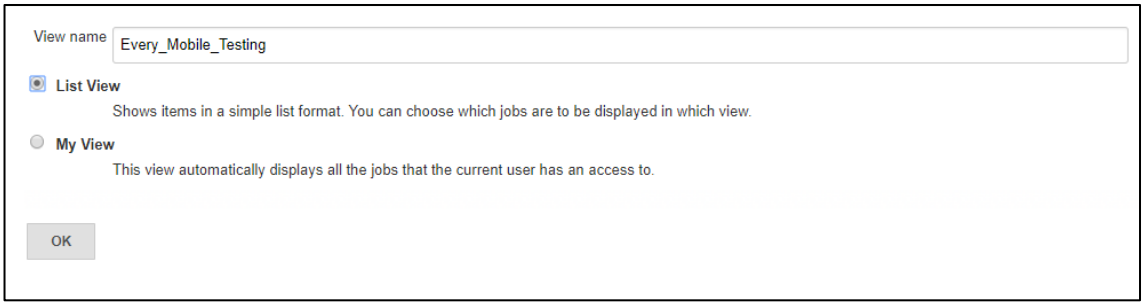
2. On clicking, give the name of the tab as **Every_Mobile_Testing** and select the type of view.



3. On entering the name and selecting the view type, the OK button becomes active. Click Ok.



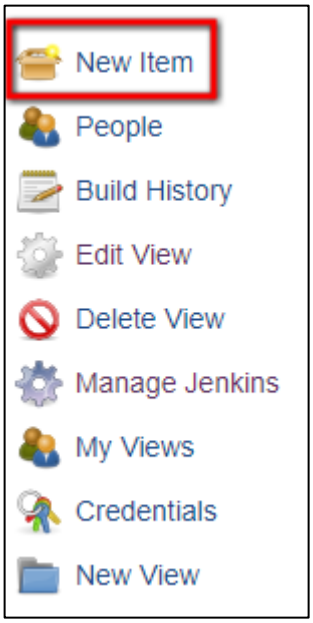
4. In the next page, select the jobs that are to be added to this tab.



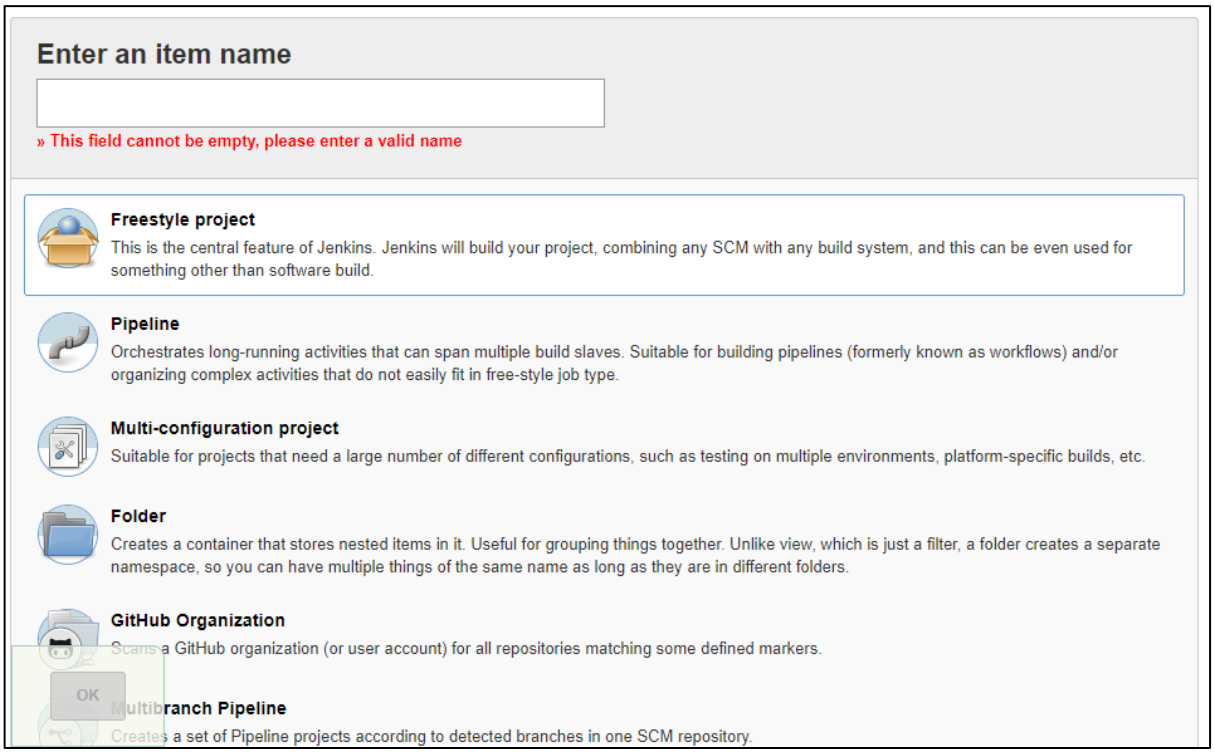
5. Once done, click Apply and Ok to save and Close the creation.

7.2 CREATING NEW JOB

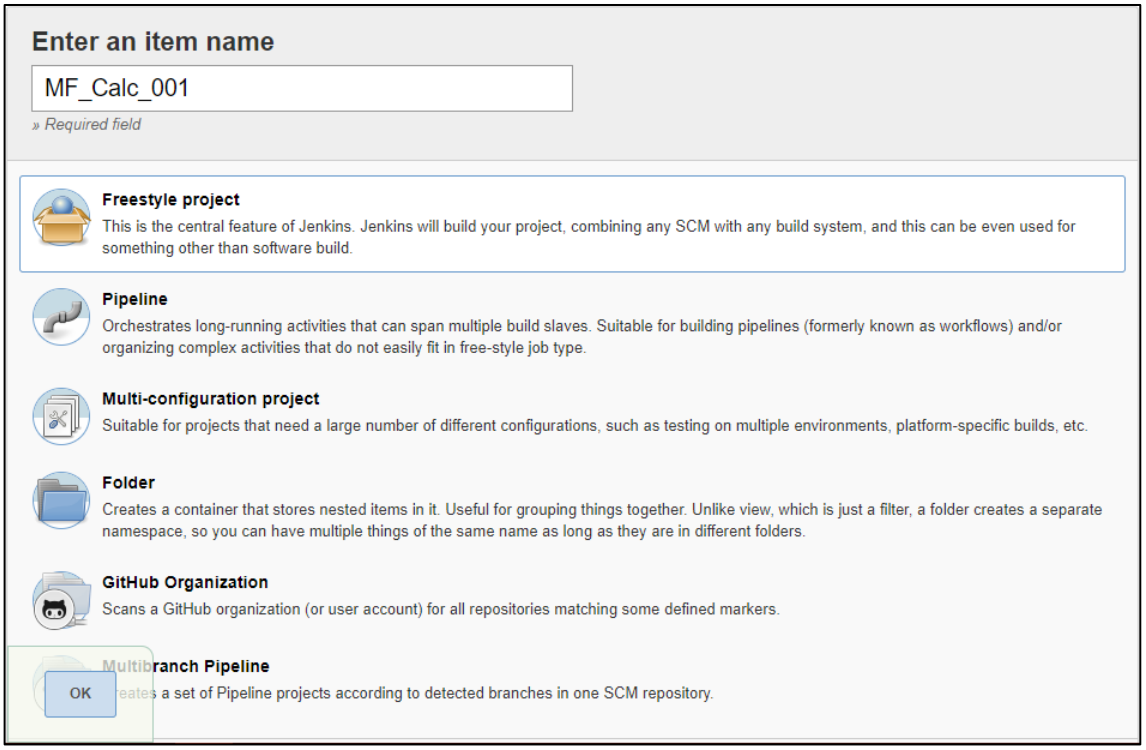
1. To create a new job, on the left panel, click **New Item**.



2. Give a name for the new job that is going to be created and select the tab in which it is to be stored.

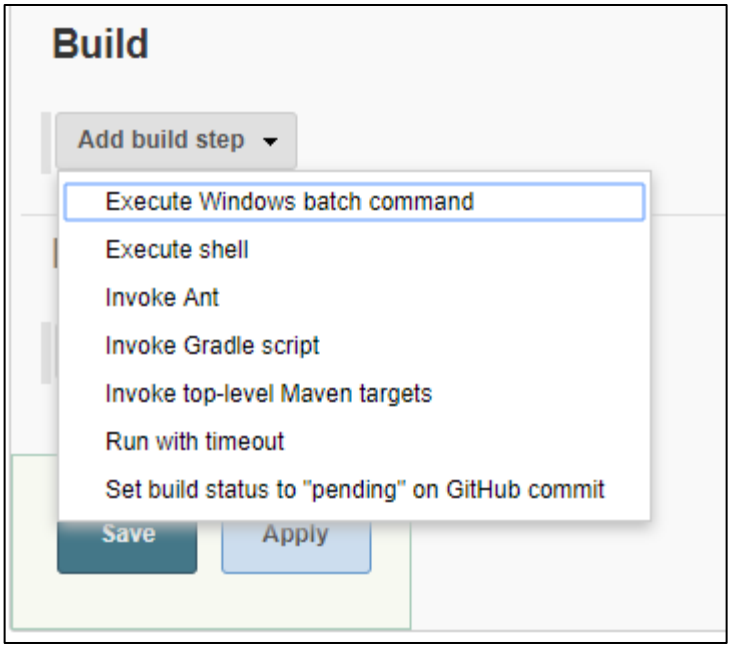


3. Then select the type of the job that is to be created.
4. Click Ok to save the job.

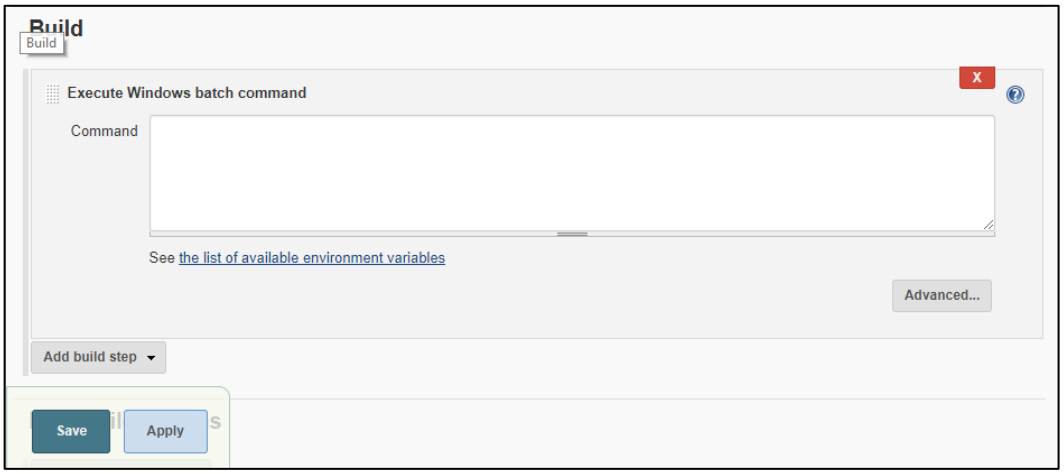


5. On click of Ok button, job configuration page will appear.
6. Scroll down and look for Build.

7. Under build, click Add Build Setup drop down.



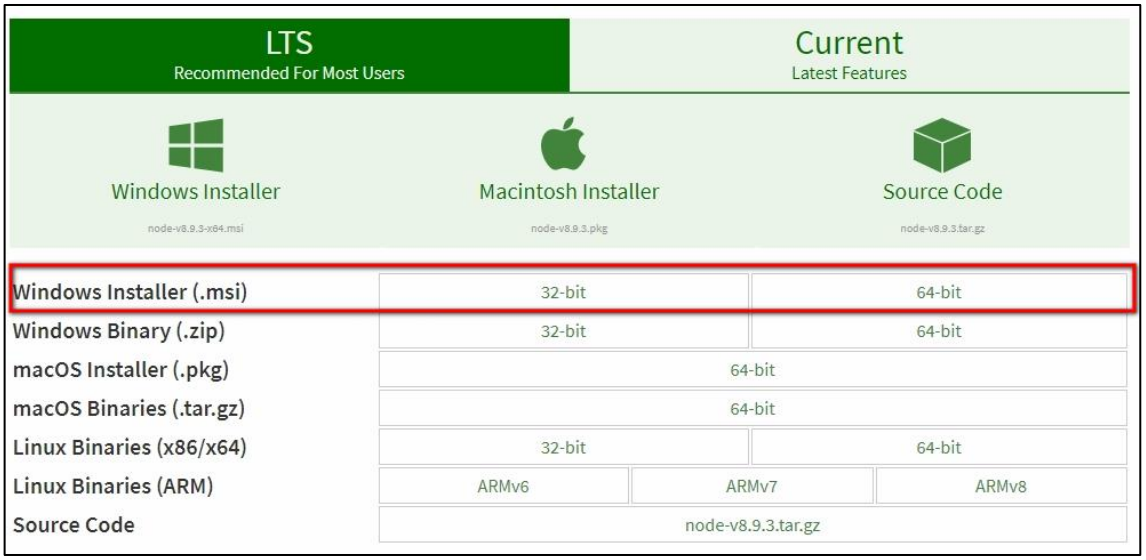
8. From the drop down, select **Execute Windows Batch Command.**
9. On selecting, a text area appears.



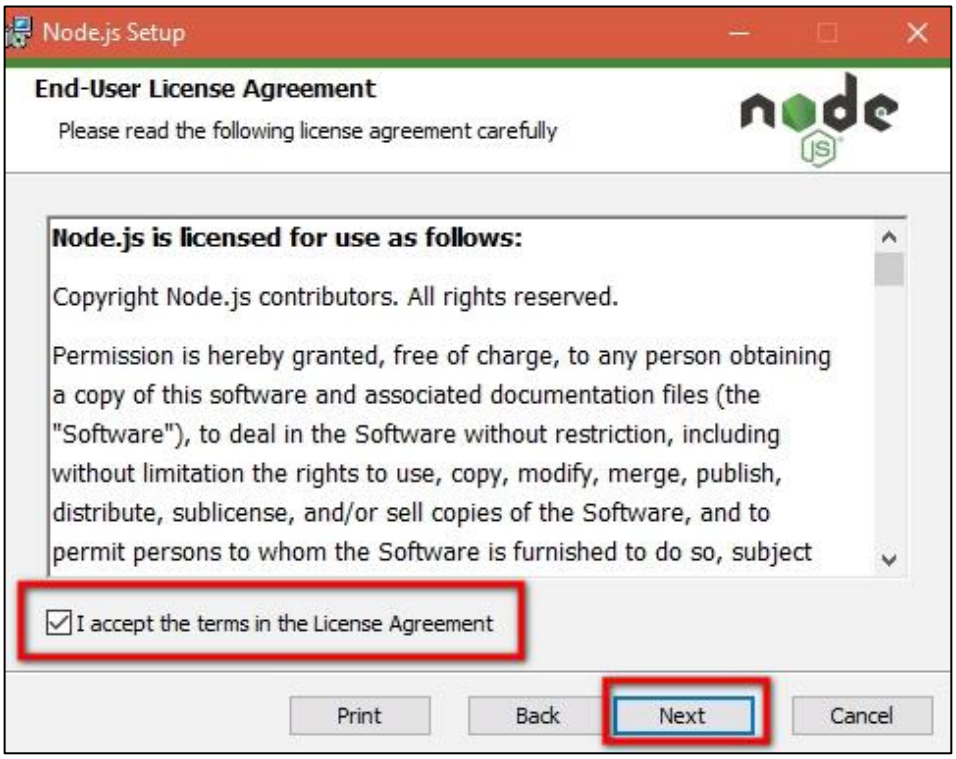
10. In the text area, write the following command.

8. INSTALLATION – NODE

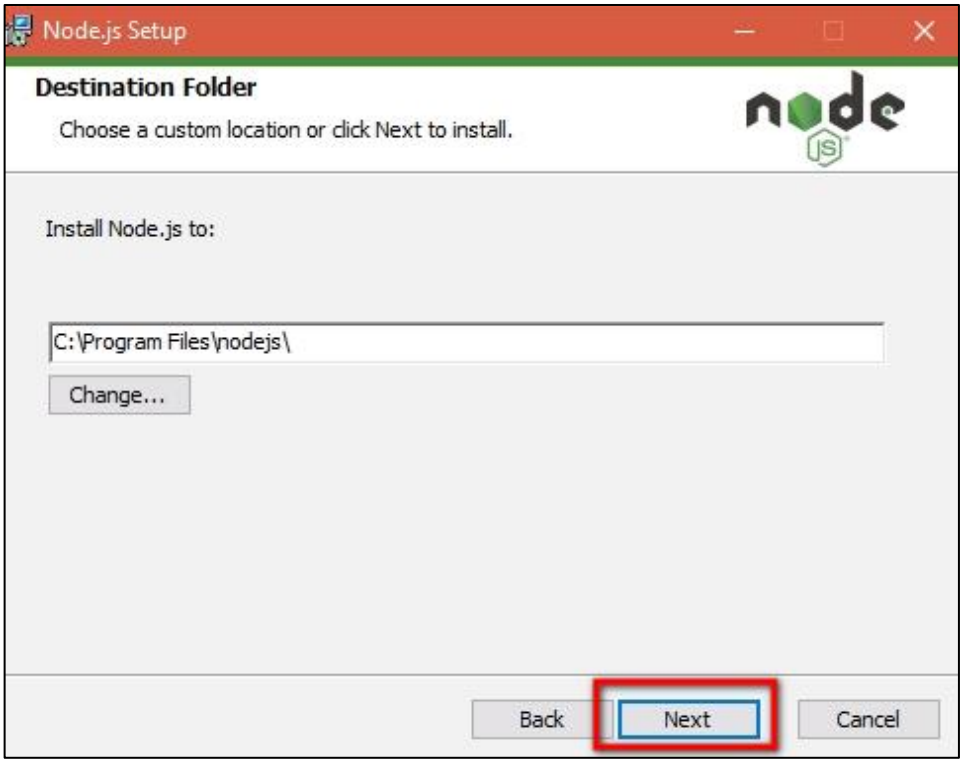
1. Click the link to download the node server
   https://nodejs.org/en/download/
2. Look for the version of that support your OS like below: (Example shows for Windows)



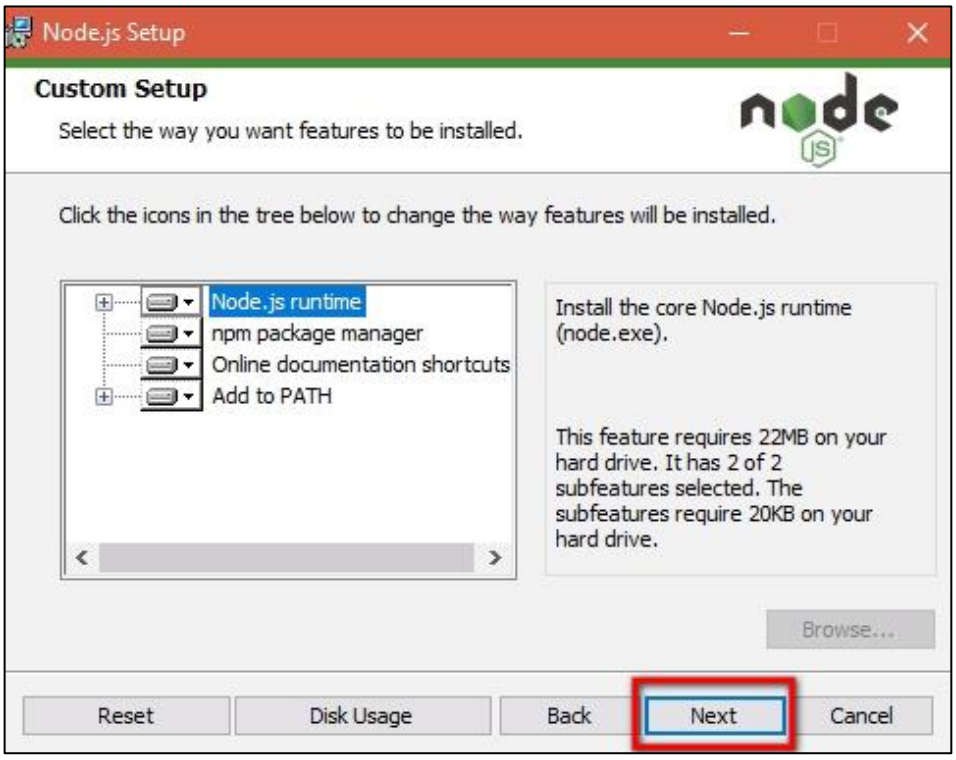
3. On clicking the link, it will automatically start downloading.
4. From the downloads click and run the installer.
5. Accept the license agreement and click next



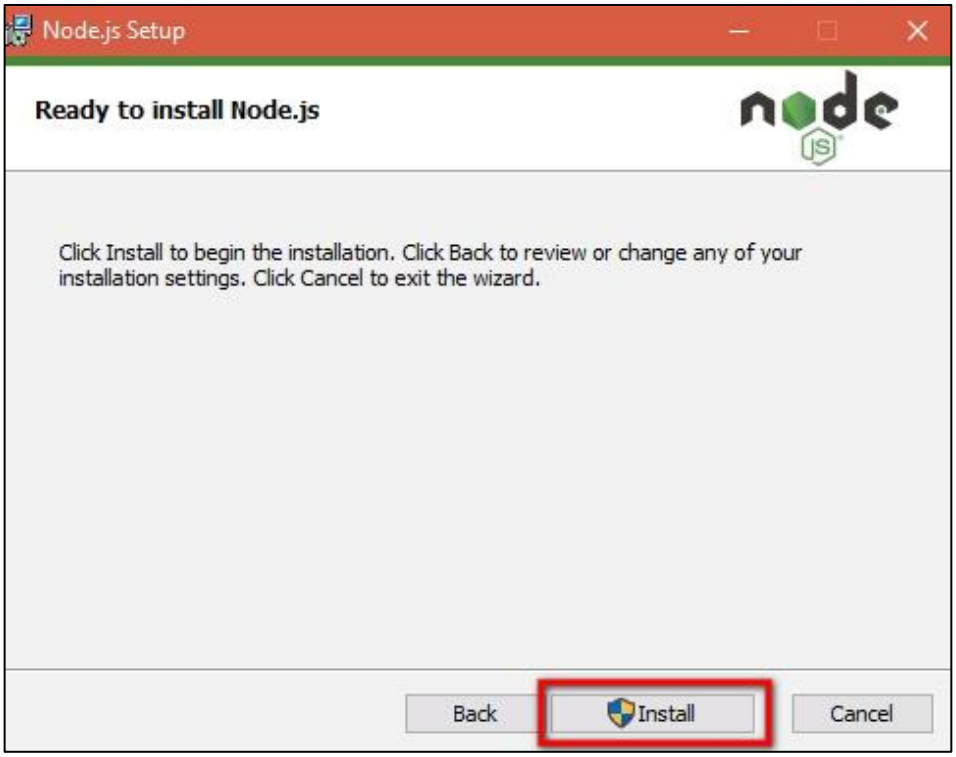
6. Select the path to store the home folder. Generally, it will be in “C:\Program Files\nodejs\”.



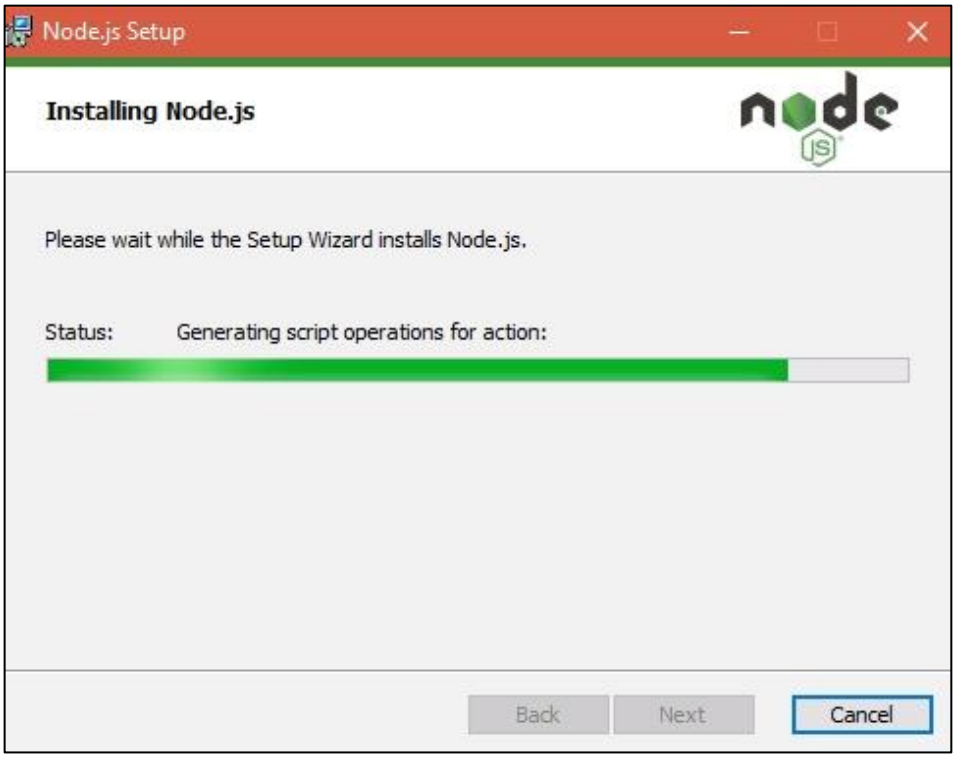
7. In the Custom Setup page, just click the next button.



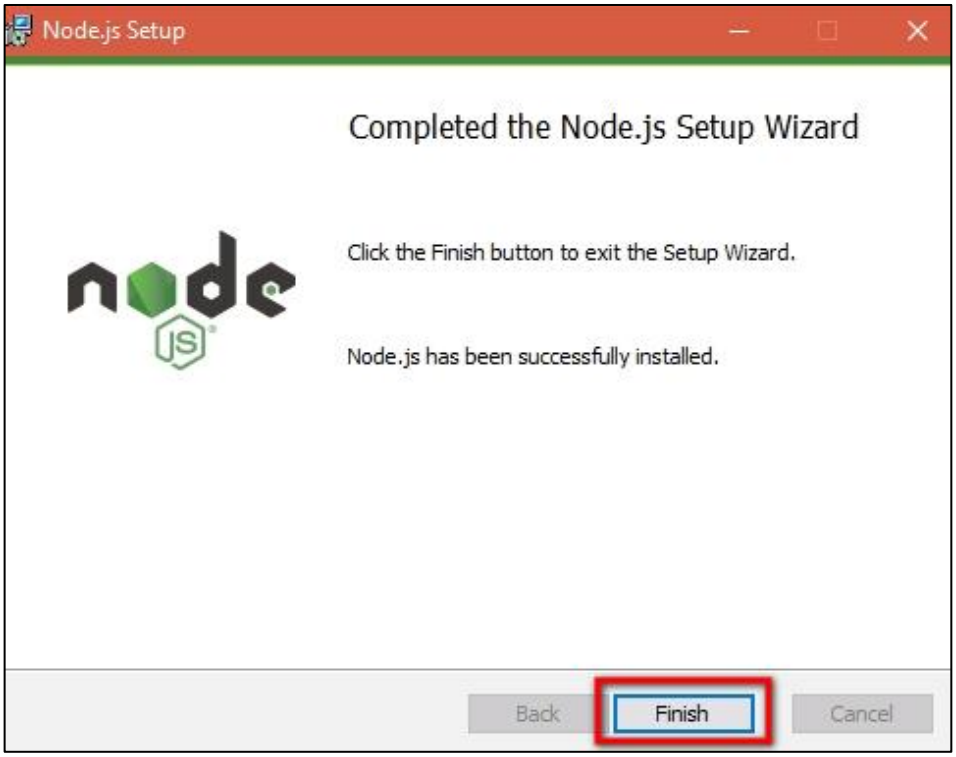
8. Just click the "**Install"** button to start the installation process.



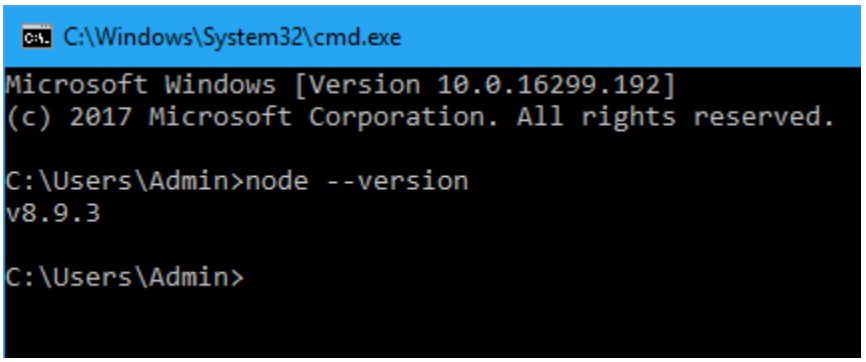
9. Then it will start the installation.



10. Once the installation is done, click finish to complete.



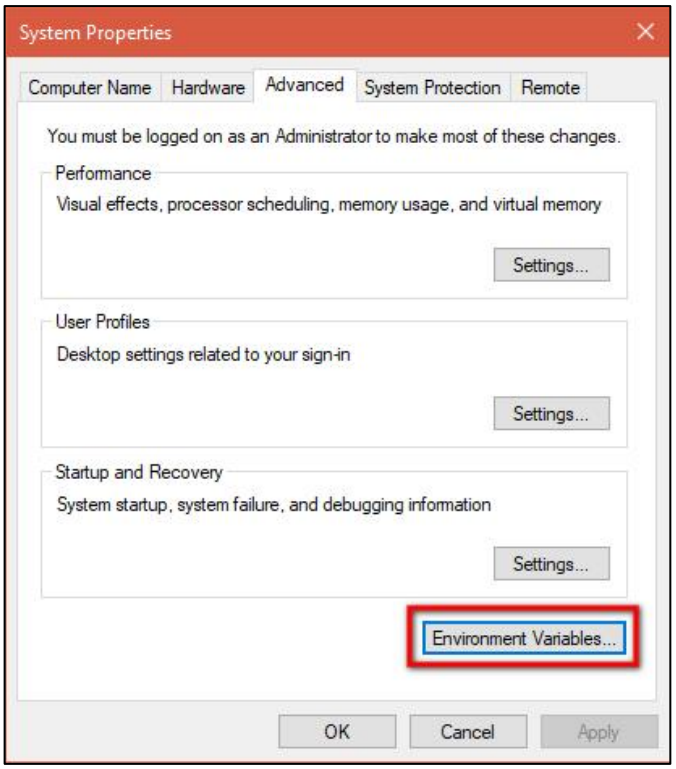
11. Open the command prompt, and type “node --version” to check whether the node is installed correctly or not. If it gives the version then it is installed perfectly.



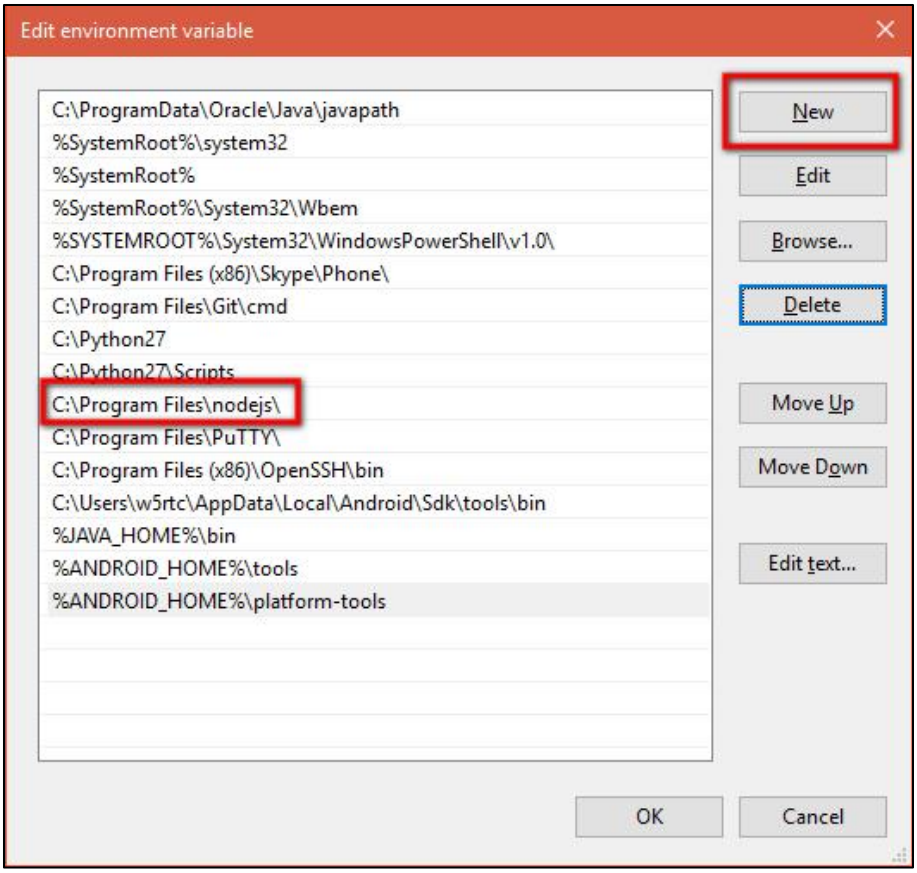
8.1 SETTING ENVIRONMENTAL VARIABLE

1. To set environmental variable and path, right click on My Computer > Properties > Advanced System Settings.

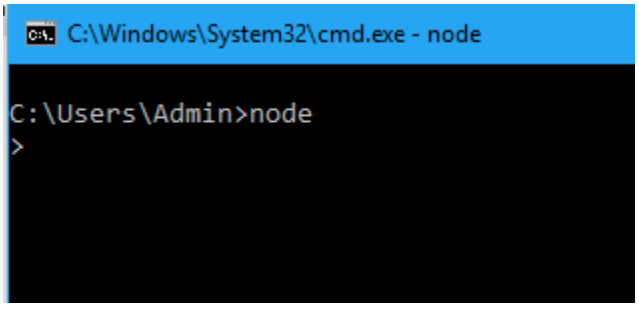
2. Click on the Environment Variables.



3. In the system variables section, click path and click new and enter the path as C:\Program Files\nodejs\

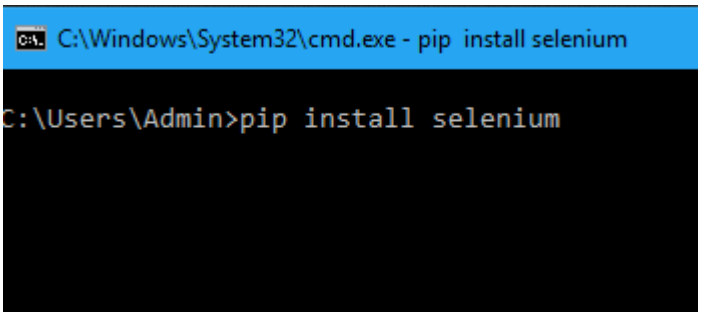


4. In order to check, open command prompt and type node and press enter. It should the node environment. Then press the Ctrl + C to exit.

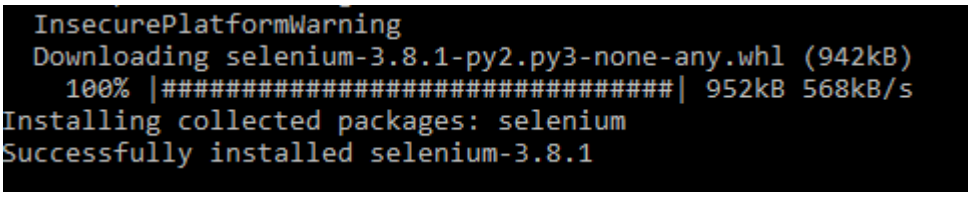


9. INSTALLATION – SELENIUM

1. Open command prompt.
2. In the command prompt, type "*pip install selenium*". And press enter.

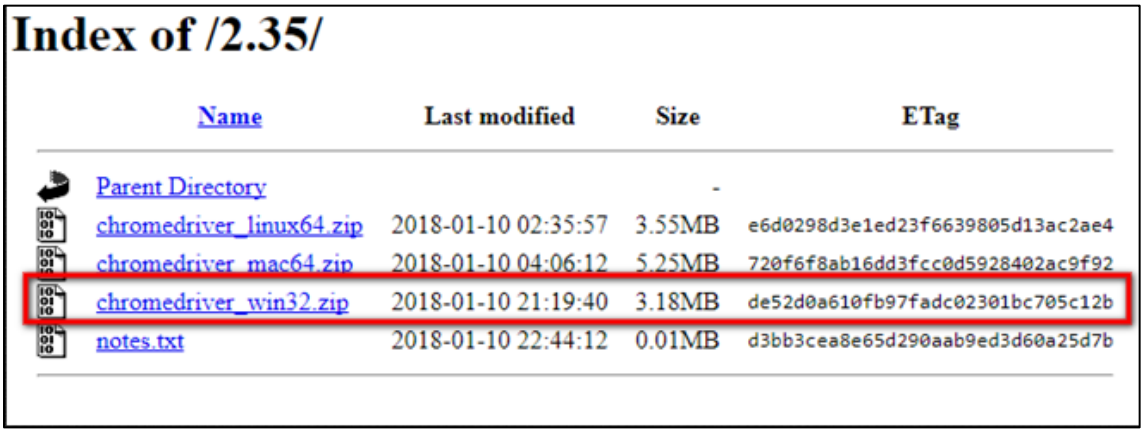


3. It will start to install.
4. After installation, it will show a success message.



10. INSTALLATION – CHROME DRIVER

a. Click the link below to download the driver for chrome browser:
b. https://chromedriver.storage.googleapis.com/index.html?path=2.34/
c. Select the installer based on the OS in the system. (Example shows for Windows).



d. It will be downloaded as a zip file. Unzipping the file, you will get the .exe file
e. Run the file.