

Practical No. 1

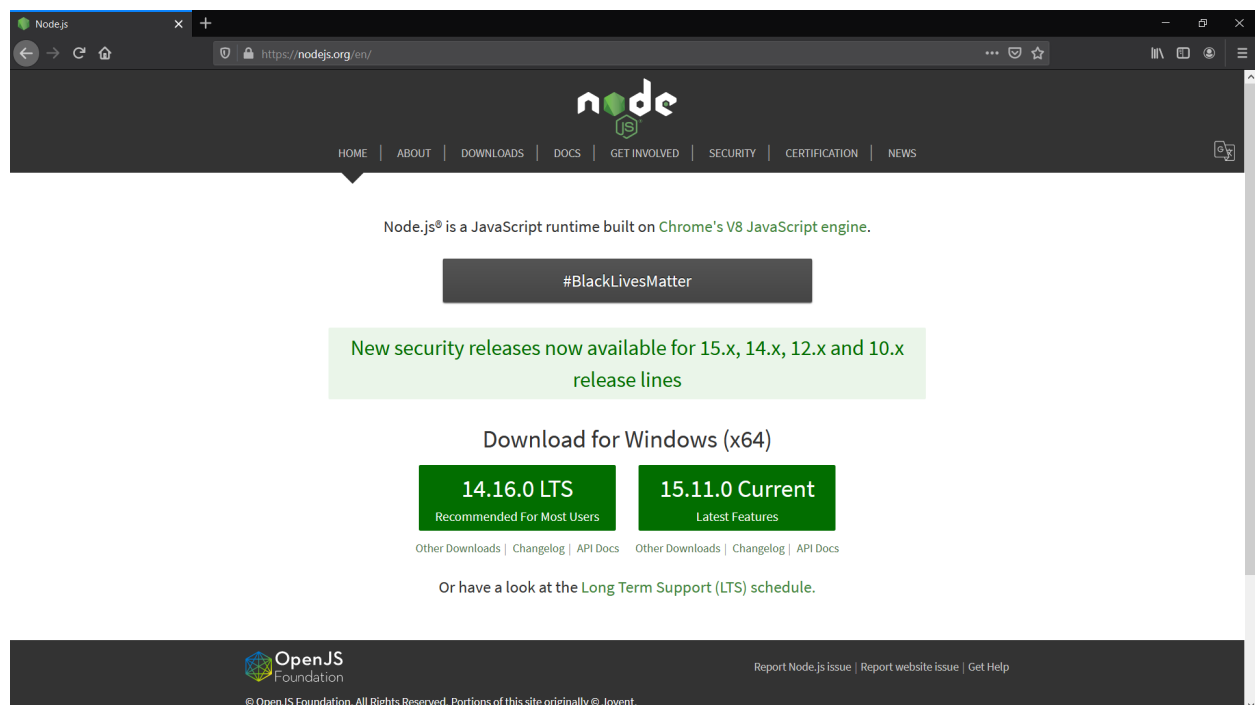
Exam Seat No: 2018BTECS00033

1. 2018BTECS00033 - Mahendra Bhimrao Garge

Problem Statement 1:

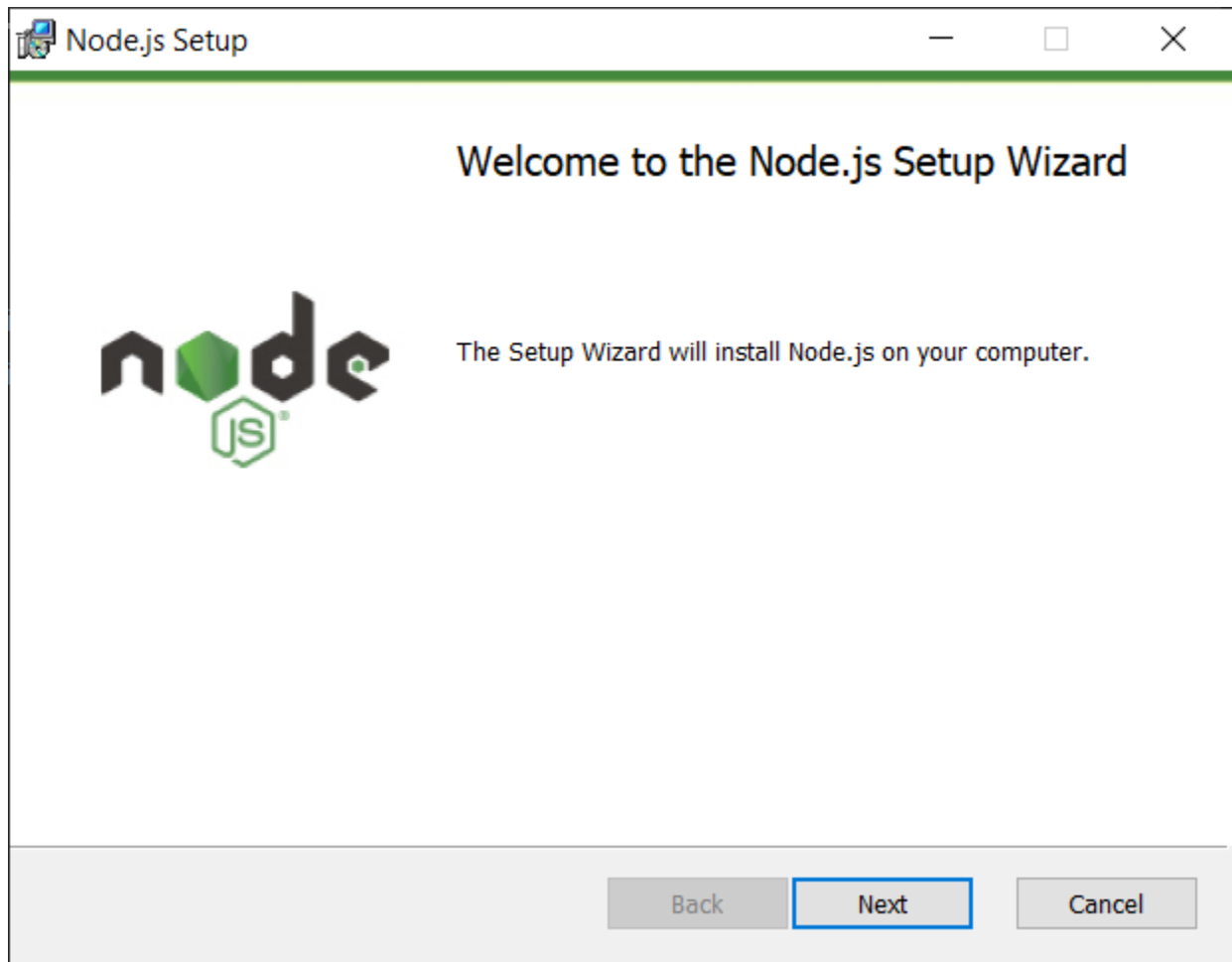
1. Download Node.js pre-built installer for your platform (Windows, macOS, Linux).
2. Verify and install necessary dependencies, make sure you have ports available for use.
3. While installing select the checkbox “Automatically install the necessary tools”.
4. Verify the installation from the command prompt. (Type node -v command prompt to check the version of node.js)
5. Download and install the IDE (Integrated Development Environment) that supports JavaScript syntax.
6. Recommended IDEs are Visual Studio Code, Sublime Text And Eclipse.

Screenshot 1:



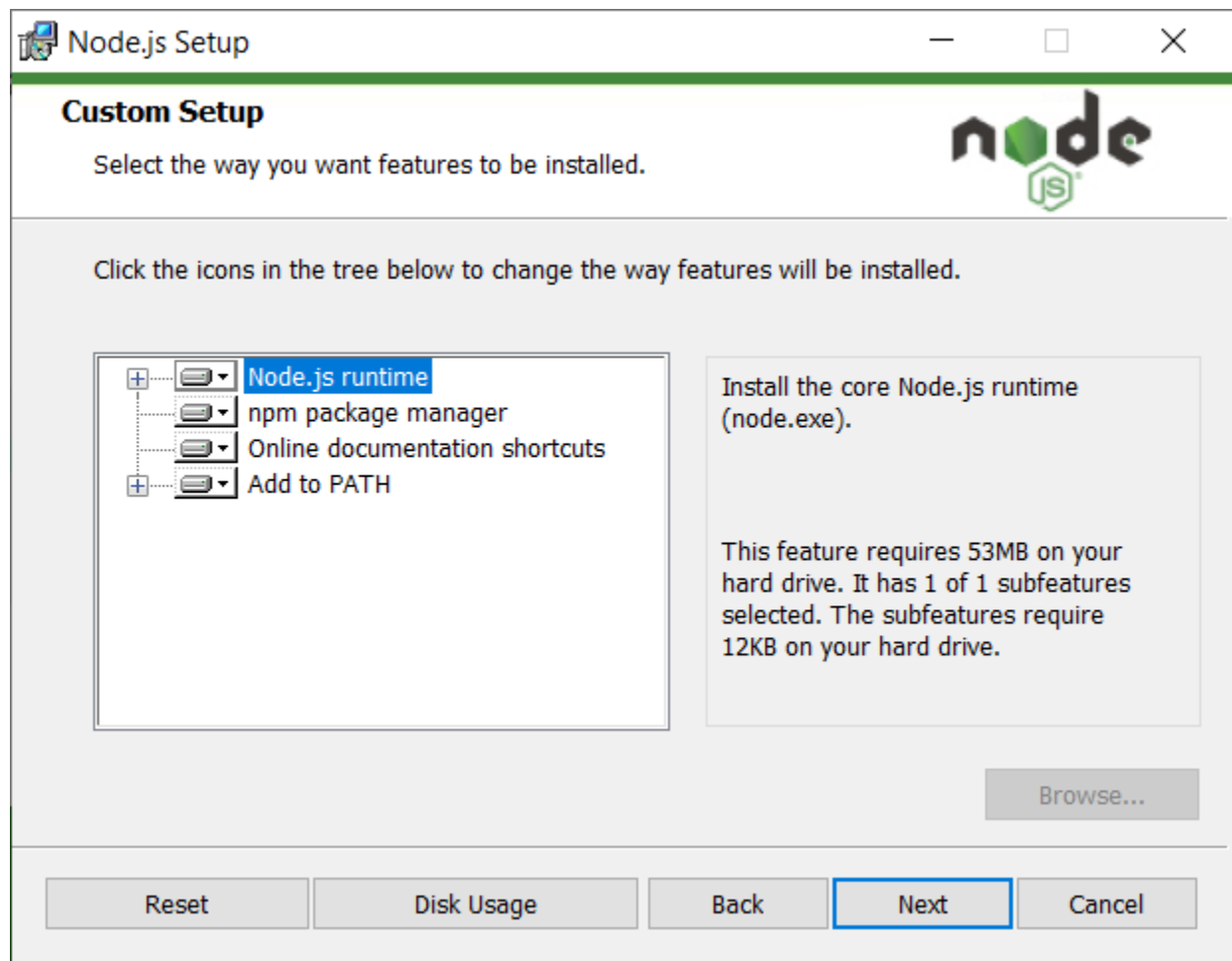
Information 1: Go to nodejs.org and download the installer for windows.

Screenshot 2:



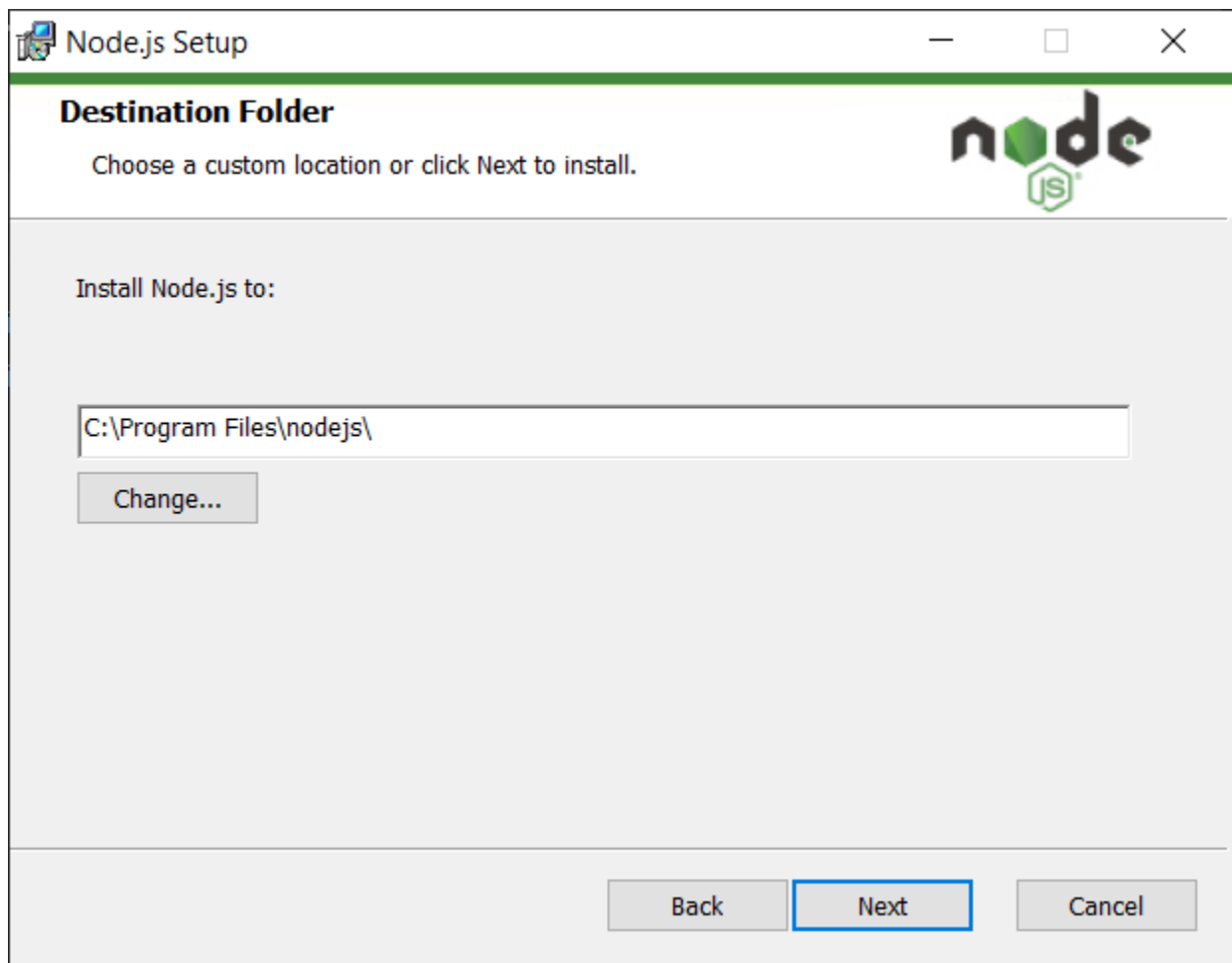
Information 2: Presented with a welcome screen.

Screenshot 3:



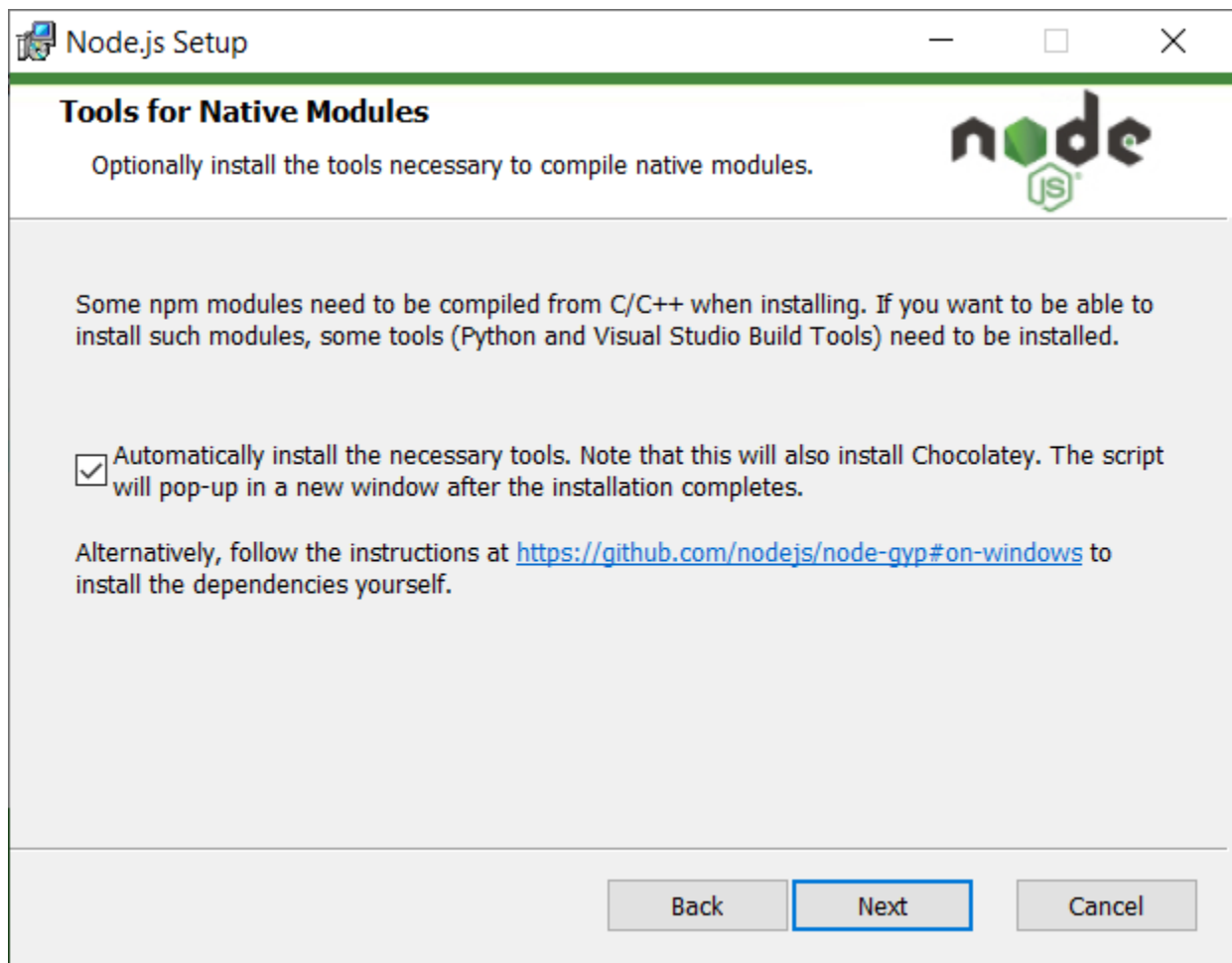
Information 3: Check all the installables and **click Next**.

Screenshot 4:



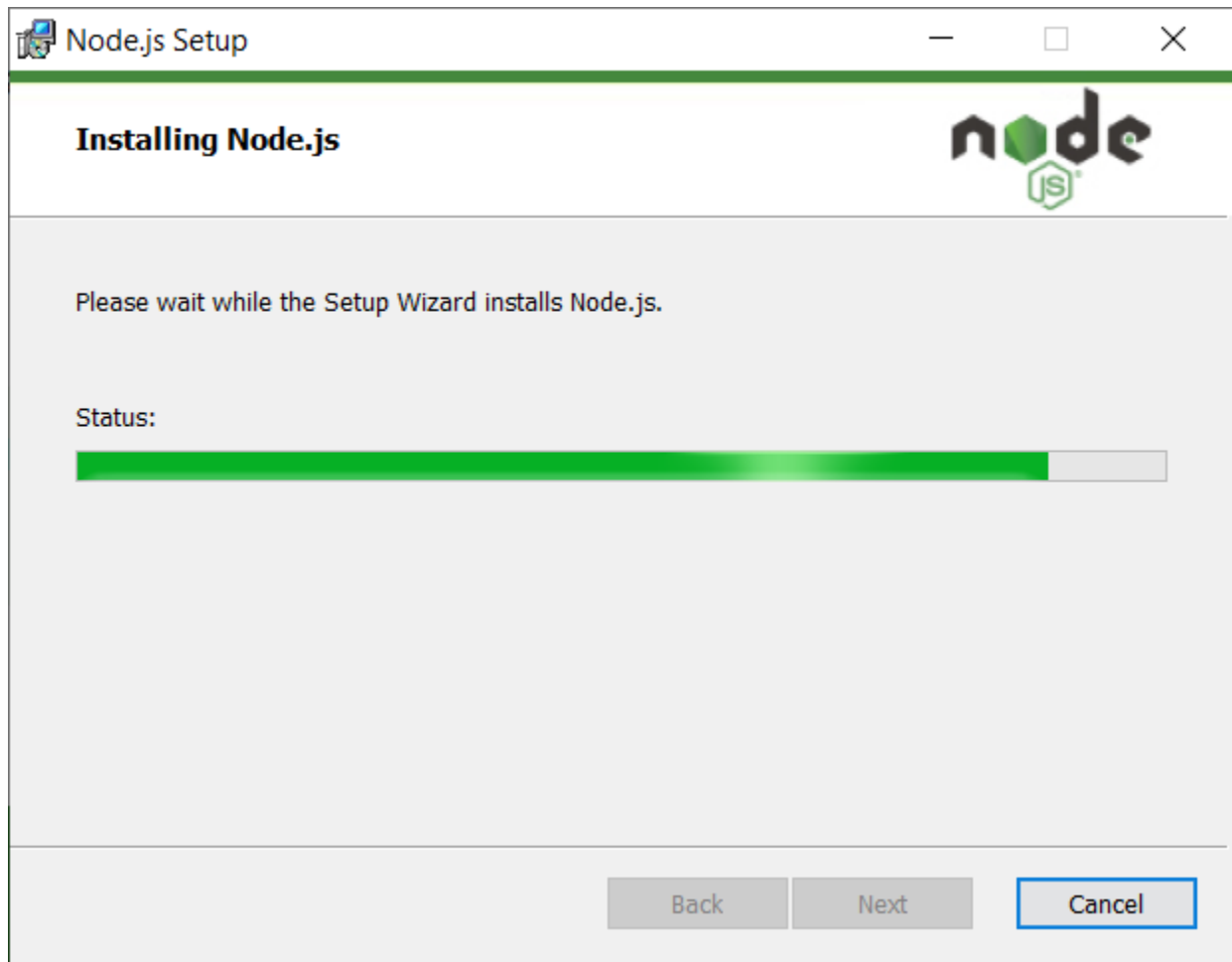
Information 4: Path of installation.

Screenshot 5:

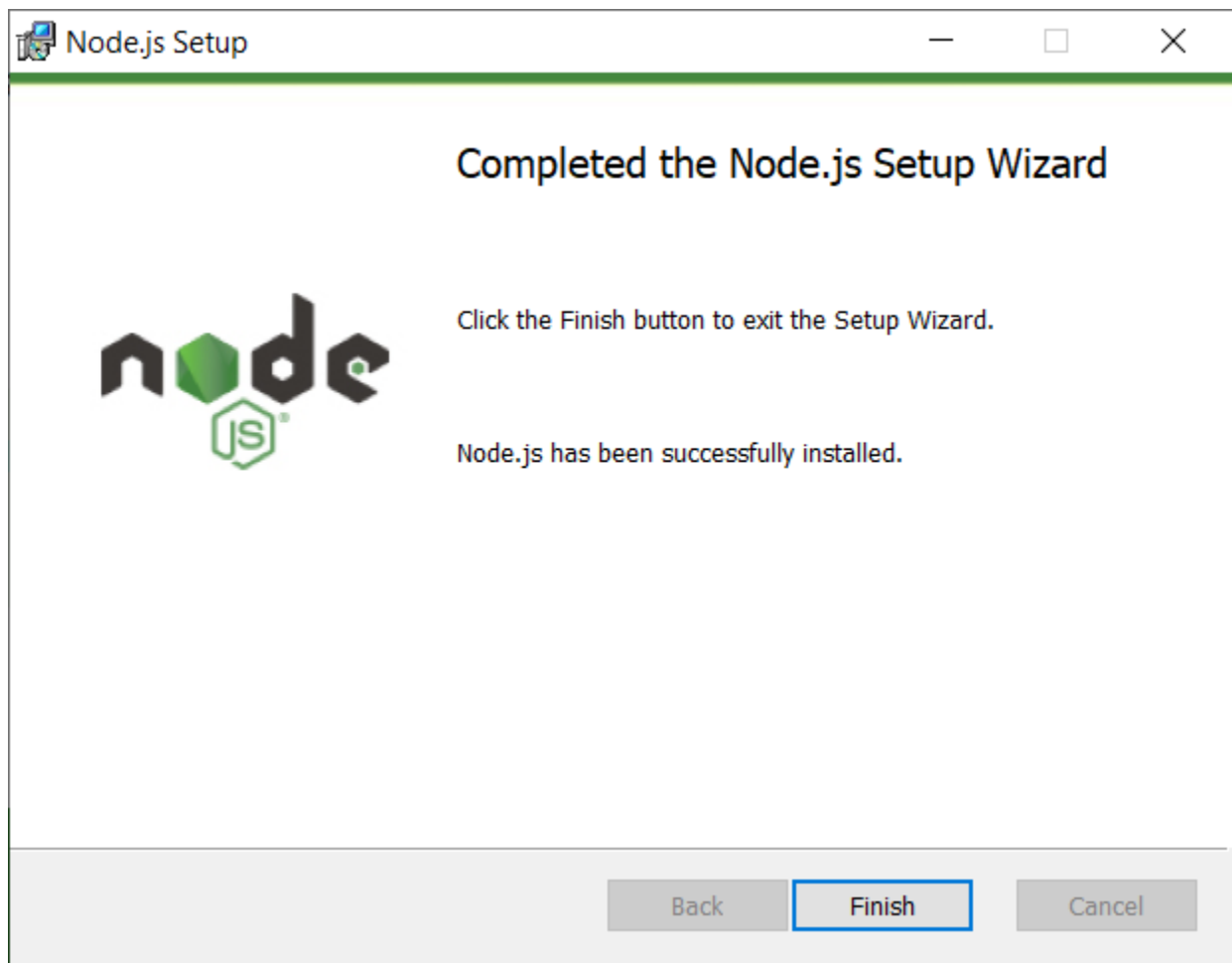


Information 5: Check the box to make sure the installer installs necessary packages such as chocolatey.

Screenshot 6:




Screenshot 7:



Information 7: Wait for the installation to finish and when it's done, click Finish.

Screenshot 8:



```
Install Additional Tools for Node.js

Tools for Node.js Native Modules Installation Script

This script will install Python and the Visual Studio Build Tools, necessary
to compile Node.js native modules. Note that Chocolatey and required Windows
updates will also be installed.

This will require about 3 Gb of free disk space, plus any space necessary to
install Windows updates. This will take a while to run.

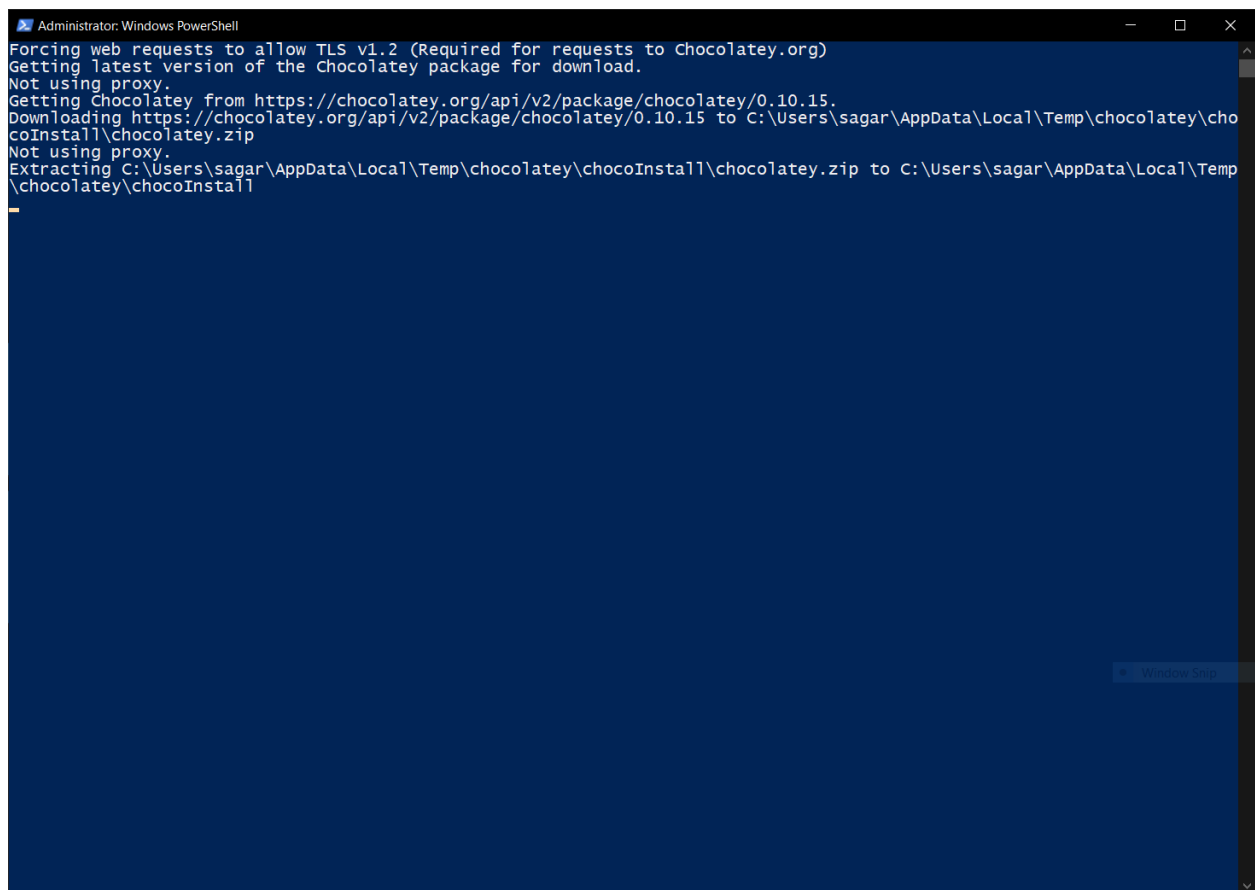
Please close all open programs for the duration of the installation. If the
installation fails, please ensure Windows is fully updated, reboot your
computer and try to run this again. This script can be found in the
Start menu under Node.js.

You can close this window to stop now. Detailed instructions to install these
tools manually are available at https://github.com/nodejs/node-gyp#on-windows

Press any key to continue . . .
```

Information 8: The prompt opens and asks for the choice of installation of the extra components needed such as choco, python etc.

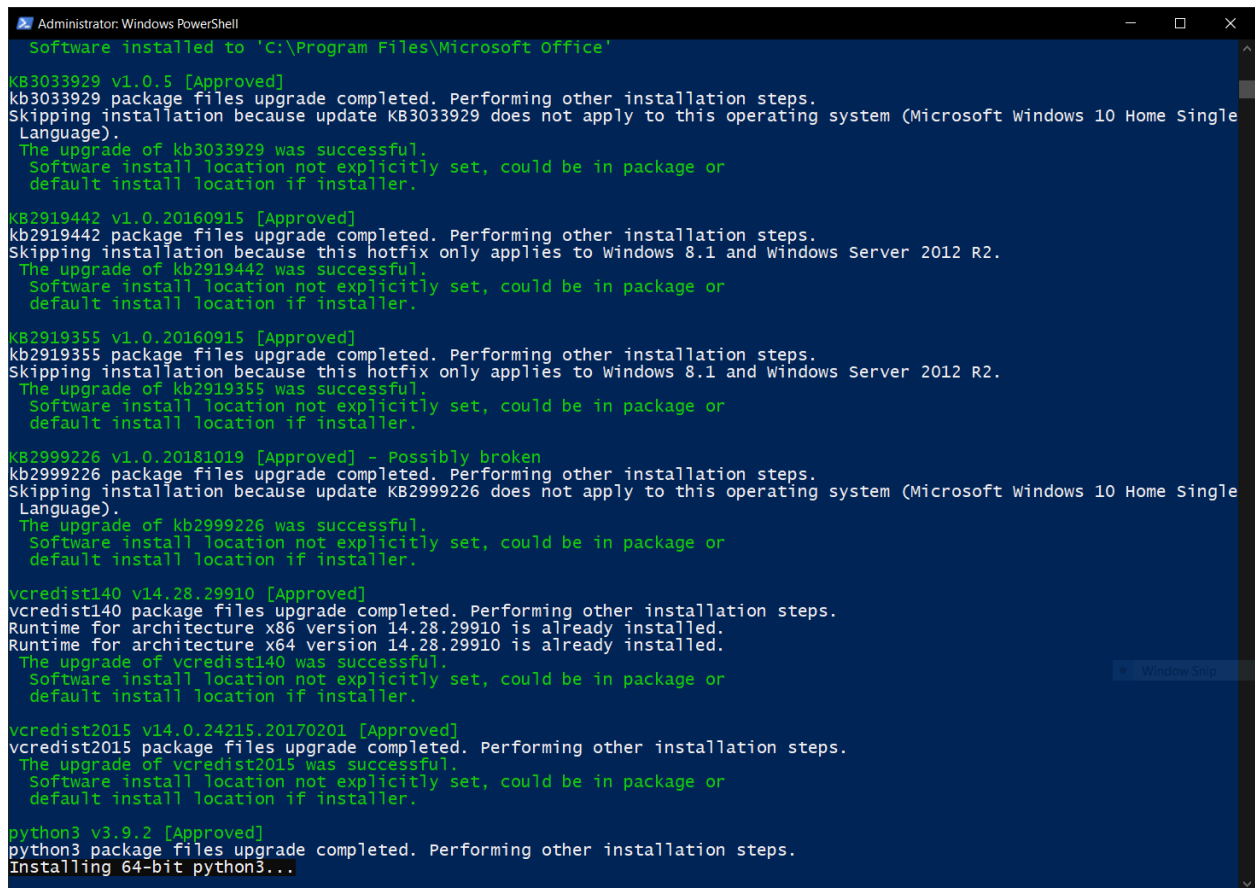
Screenshot 9:



```
Administrator: Windows PowerShell
Forcing web requests to allow TLS v1.2 (Required for requests to Chocolatey.org)
Getting latest version of the Chocolatey package for download.
Not using proxy.
Getting Chocolatey from https://chocolatey.org/api/v2/package/chocolatey/0.10.15.
Downloading https://chocolatey.org/api/v2/package/chocolatey/0.10.15 to C:\Users\sagar\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip
Not using proxy.
Extracting C:\Users\sagar\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip to C:\Users\sagar\AppData\Local\Temp\chocolatey\chocoInstall
```

Information 9: It then opens the Powershell as Administrator and installs Chocolety, Python, Visual Studio etc.

Screenshot 10:



```
Administrator: Windows PowerShell
Software installed to 'C:\Program Files\Microsoft Office'

KB3033929 v1.0.5 [Approved]
kb3033929 package files upgrade completed. Performing other installation steps.
Skipping installation because update KB3033929 does not apply to this operating system (Microsoft Windows 10 Home Single Language).
The upgrade of kb3033929 was successful.
Software install location not explicitly set, could be in package or default install location if installer.

KB2919442 v1.0.20160915 [Approved]
kb2919442 package files upgrade completed. Performing other installation steps.
Skipping installation because this hotfix only applies to Windows 8.1 and Windows Server 2012 R2.
The upgrade of kb2919442 was successful.
Software install location not explicitly set, could be in package or default install location if installer.

KB2919355 v1.0.20160915 [Approved]
kb2919355 package files upgrade completed. Performing other installation steps.
Skipping installation because this hotfix only applies to Windows 8.1 and Windows Server 2012 R2.
The upgrade of kb2919355 was successful.
Software install location not explicitly set, could be in package or default install location if installer.

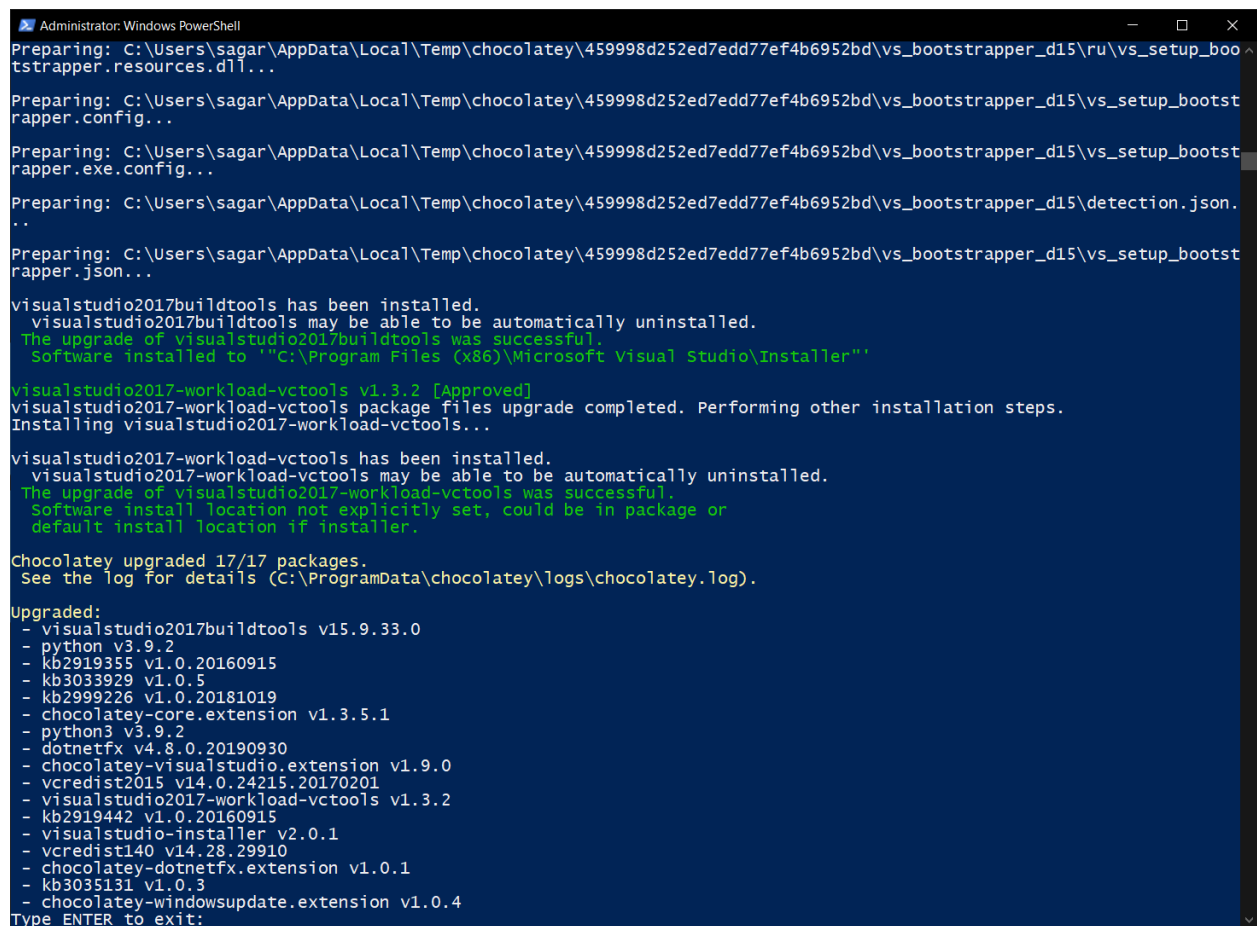
KB2999226 v1.0.20181019 [Approved] - Possibly broken
kb2999226 package files upgrade completed. Performing other installation steps.
Skipping installation because update KB2999226 does not apply to this operating system (Microsoft Windows 10 Home Single Language).
The upgrade of kb2999226 was successful.
Software install location not explicitly set, could be in package or default install location if installer.

vccredist140 v14.28.29910 [Approved]
vccredist140 package files upgrade completed. Performing other installation steps.
Runtime for architecture x86 version 14.28.29910 is already installed.
Runtime for architecture x64 version 14.28.29910 is already installed.
The upgrade of vccredist140 was successful.
Software install location not explicitly set, could be in package or default install location if installer.

vccredist2015 v14.0.24215.20170201 [Approved]
vccredist2015 package files upgrade completed. Performing other installation steps.
The upgrade of vccredist2015 was successful.
Software install location not explicitly set, could be in package or default install location if installer.

python3 v3.9.2 [Approved]
python3 package files upgrade completed. Performing other installation steps.
Installing 64-bit python3...
```

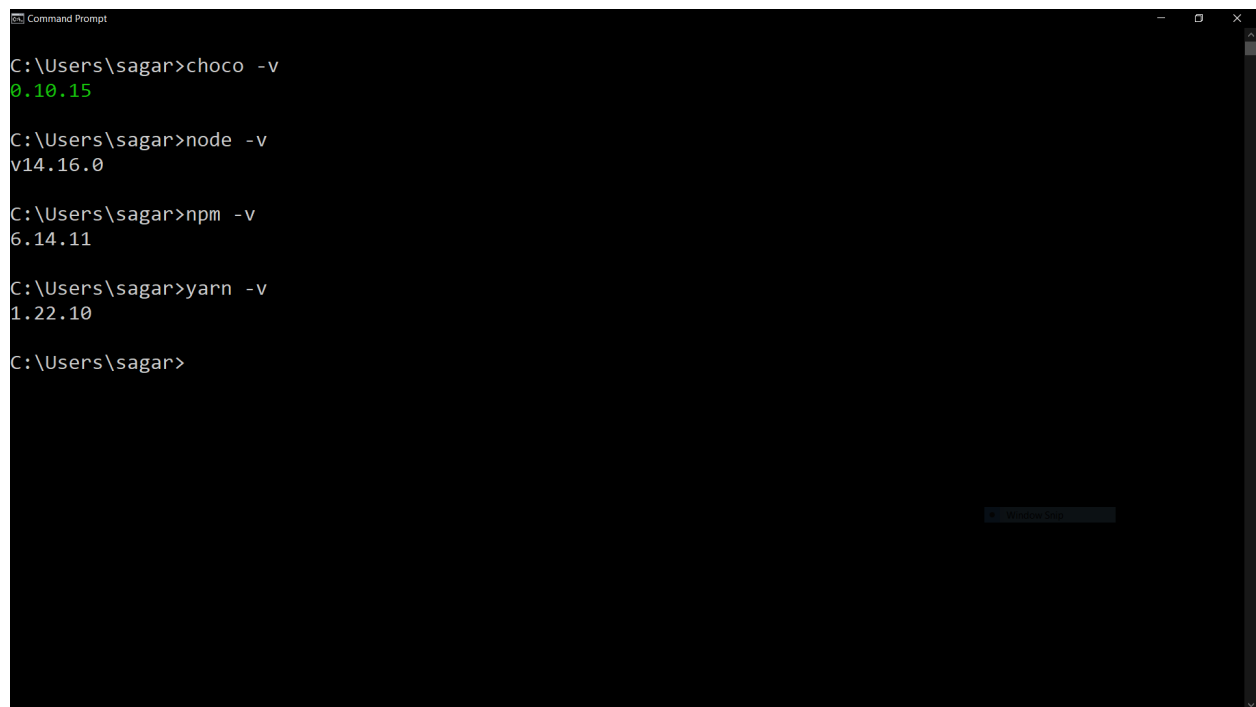
Screenshot 11:



```
Administrator: Windows PowerShell
Preparing: C:\Users\sagar\AppData\Local\Temp\chocolatey\459998d252ed7edd77ef4b6952bd\vs_bootstrapper_d15\ru\vs_setup_bootstrapper.resources.dll...
Preparing: C:\Users\sagar\AppData\Local\Temp\chocolatey\459998d252ed7edd77ef4b6952bd\vs_bootstrapper_d15\vs_setup_bootstrapper.config...
Preparing: C:\Users\sagar\AppData\Local\Temp\chocolatey\459998d252ed7edd77ef4b6952bd\vs_bootstrapper_d15\vs_setup_bootstrapper.exe.config...
Preparing: C:\Users\sagar\AppData\Local\Temp\chocolatey\459998d252ed7edd77ef4b6952bd\vs_bootstrapper_d15\detection.json...
Preparing: C:\Users\sagar\AppData\Local\Temp\chocolatey\459998d252ed7edd77ef4b6952bd\vs_bootstrapper_d15\vs_setup_bootstrapper.json...
visualstudio2017buildtools has been installed.
visualstudio2017buildtools may be able to be automatically uninstalled.
The upgrade of visualstudio2017buildtools was successful.
Software installed to '"C:\Program Files (x86)\Microsoft Visual Studio\Installer"'
visualstudio2017-workload-vctools v1.3.2 [Approved]
visualstudio2017-workload-vctools package files upgrade completed. Performing other installation steps.
Installing visualstudio2017-workload-vctools...
visualstudio2017-workload-vctools has been installed.
visualstudio2017-workload-vctools may be able to be automatically uninstalled.
The upgrade of visualstudio2017-workload-vctools was successful.
Software install location not explicitly set, could be in package or default install location if installer.
Chocolatey upgraded 17/17 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).
Upgraded:
- visualstudio2017buildtools v15.9.33.0
- python v3.9.2
- kb2919355 v1.0.20160915
- kb3033929 v1.0.5
- kb2999226 v1.0.20181019
- chocolatey-core.extension v1.3.5.1
- python3 v3.9.2
- dotnetfx v4.8.0.20190930
- chocolatey-visualstudio.extension v1.9.0
- vc_redist2015 v14.0.24215.20170201
- visualstudio2017-workload-vctools v1.3.2
- kb2919442 v1.0.20160915
- visualstudio-installer v2.0.1
- vc_redist140 v14.28.29910
- chocolatey-dotnetfx.extension v1.0.1
- kb3035131 v1.0.3
- chocolatey-windowsupdate.extension v1.0.4
Type ENTER to exit:
```

Information 11: Once done installing, press **Enter** to quit the powershell.

Screenshot 12:



```
Command Prompt

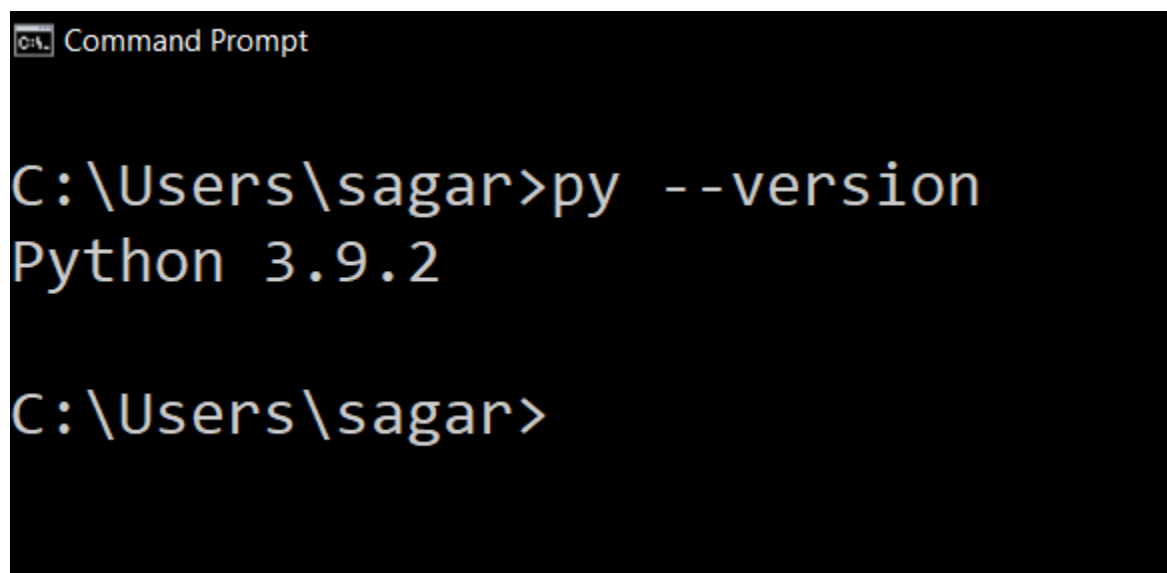
C:\Users\sagar>choco -v
0.10.15

C:\Users\sagar>node -v
v14.16.0

C:\Users\sagar>npm -v
6.14.11

C:\Users\sagar>yarn -v
1.22.10

C:\Users\sagar>
```



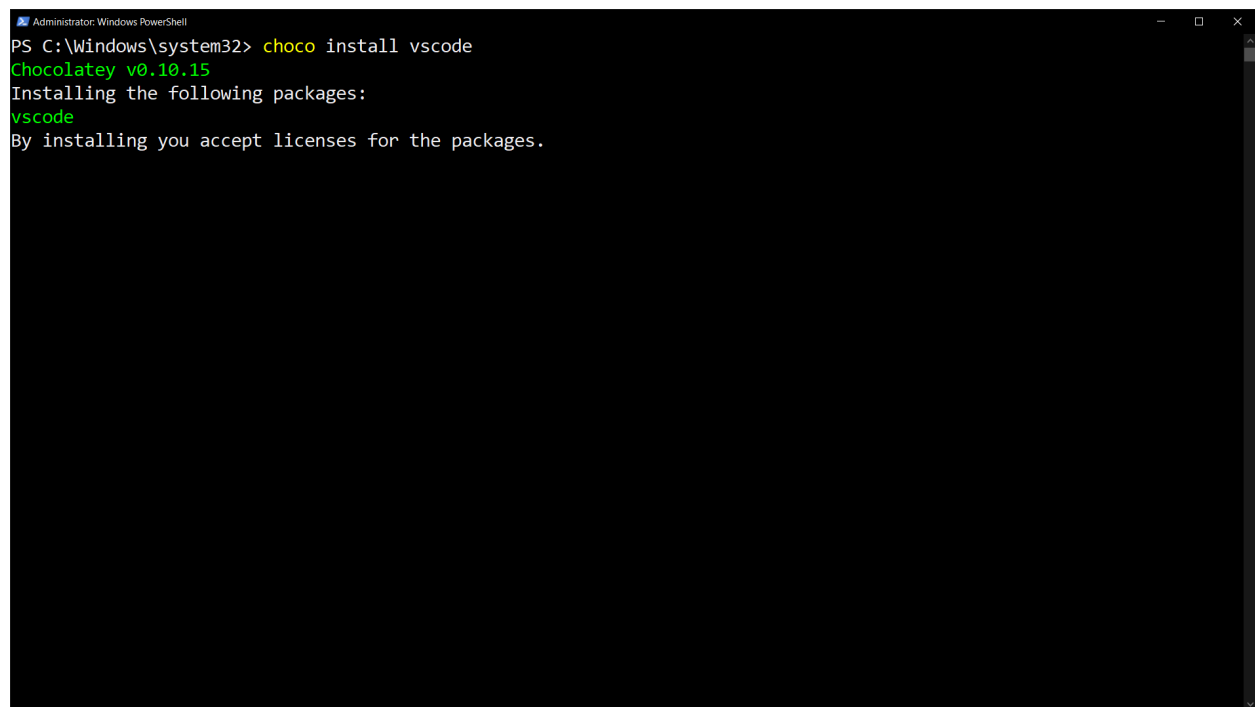
```
Command Prompt

C:\Users\sagar>py --version
Python 3.9.2

C:\Users\sagar>
```

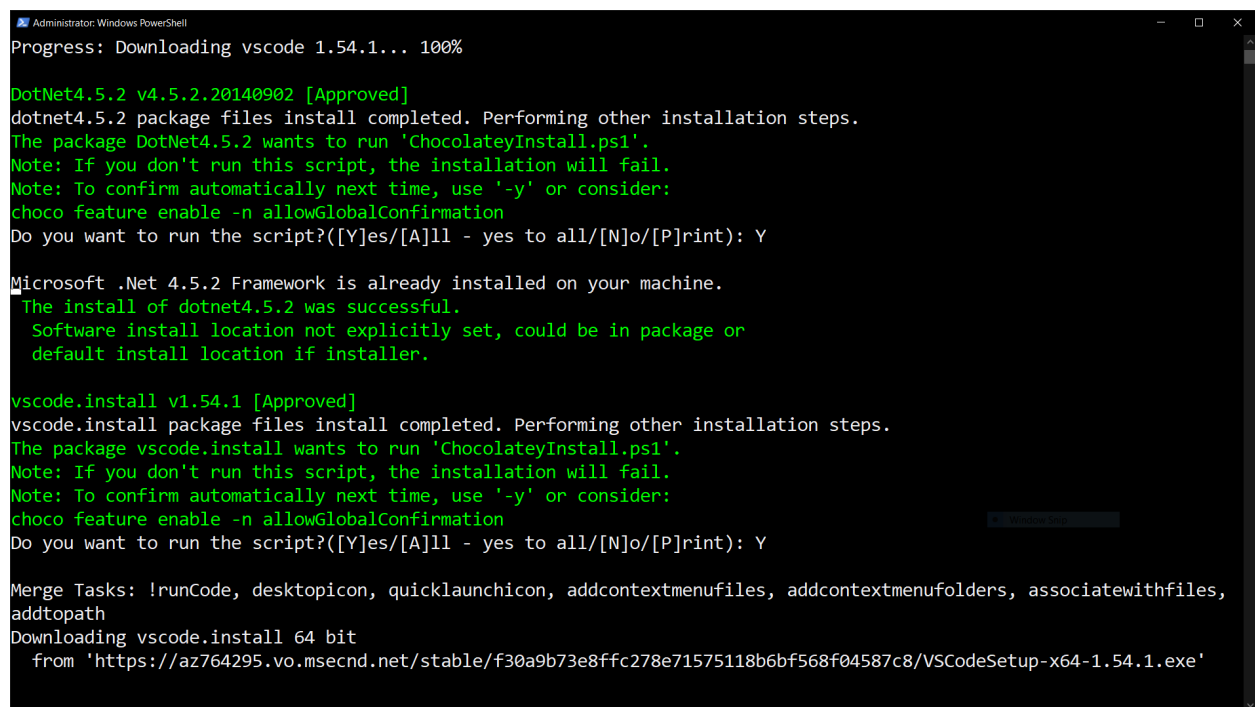
Information 12: Check the installation by packages versions.

Screenshot 13:



```
Administrator: Windows PowerShell
PS C:\Windows\system32> choco install vscode
Chocolatey v0.10.15
Installing the following packages:
vscode
By installing you accept licenses for the packages.
```

Screenshot 14::



```
Administrator: Windows PowerShell
Progress: Downloading vscode 1.54.1... 100%

DotNet4.5.2 v4.5.2.20140902 [Approved]
dotnet4.5.2 package files install completed. Performing other installation steps.
The package DotNet4.5.2 wants to run 'ChocolateyInstall.ps1'.
Note: If you don't run this script, the installation will fail.
Note: To confirm automatically next time, use '-y' or consider:
choco feature enable -n allowGlobalConfirmation
Do you want to run the script?([Y]es/[A]ll - yes to all/[N]o/[P]rint): Y

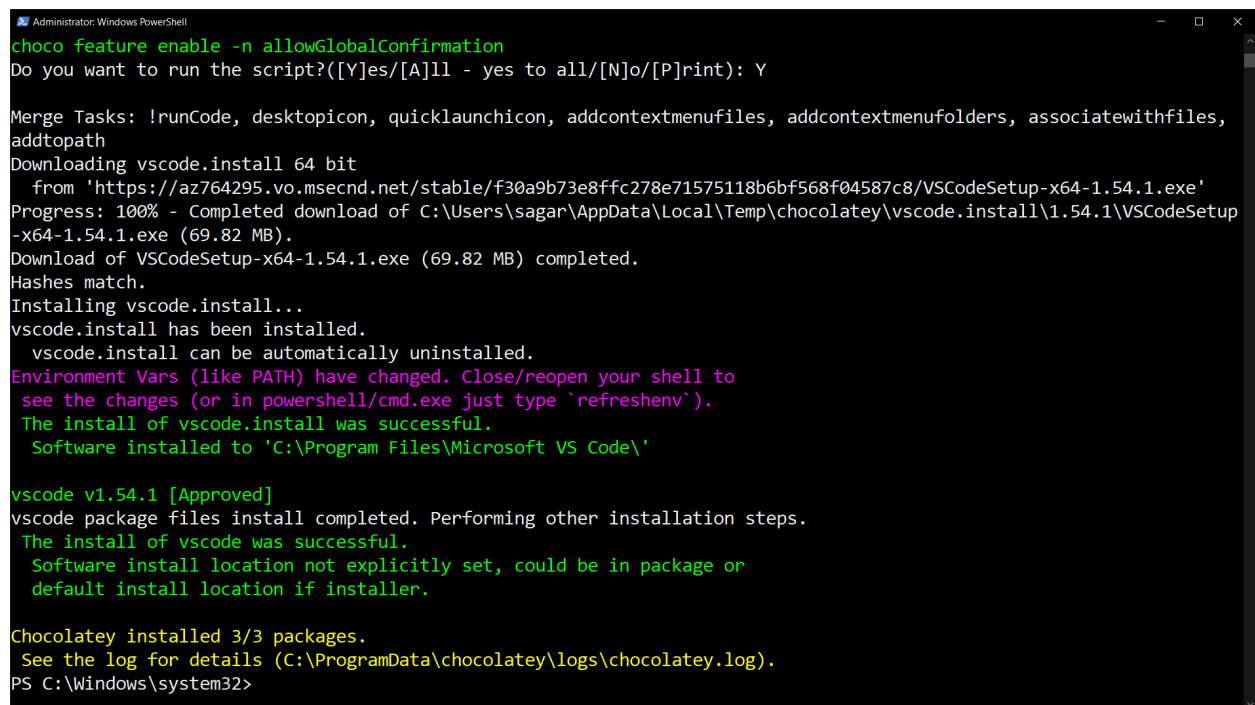
Microsoft .Net 4.5.2 Framework is already installed on your machine.
The install of dotnet4.5.2 was successful.
  Software install location not explicitly set, could be in package or
  default install location if installer.

vscode.install v1.54.1 [Approved]
vscode.install package files install completed. Performing other installation steps.
The package vscode.install wants to run 'ChocolateyInstall.ps1'.
Note: If you don't run this script, the installation will fail.
Note: To confirm automatically next time, use '-y' or consider:
choco feature enable -n allowGlobalConfirmation
Do you want to run the script?([Y]es/[A]ll - yes to all/[N]o/[P]rint): Y

Merge Tasks: !runCode, desktopicon, quicklaunchicon, addcontextmenufiles, addcontextmenufolders, associatewithfiles,
addtopath
Downloading vscode.install 64 bit
  from 'https://az764295.vo.msecnd.net/stable/f30a9b73e8ffc278e71575118b6bf568f04587c8/VSCodeSetup-x64-1.54.1.exe'
```

Information 14: Installation of Visual Studio Code IDE using **choco**.

Screenshot 15::



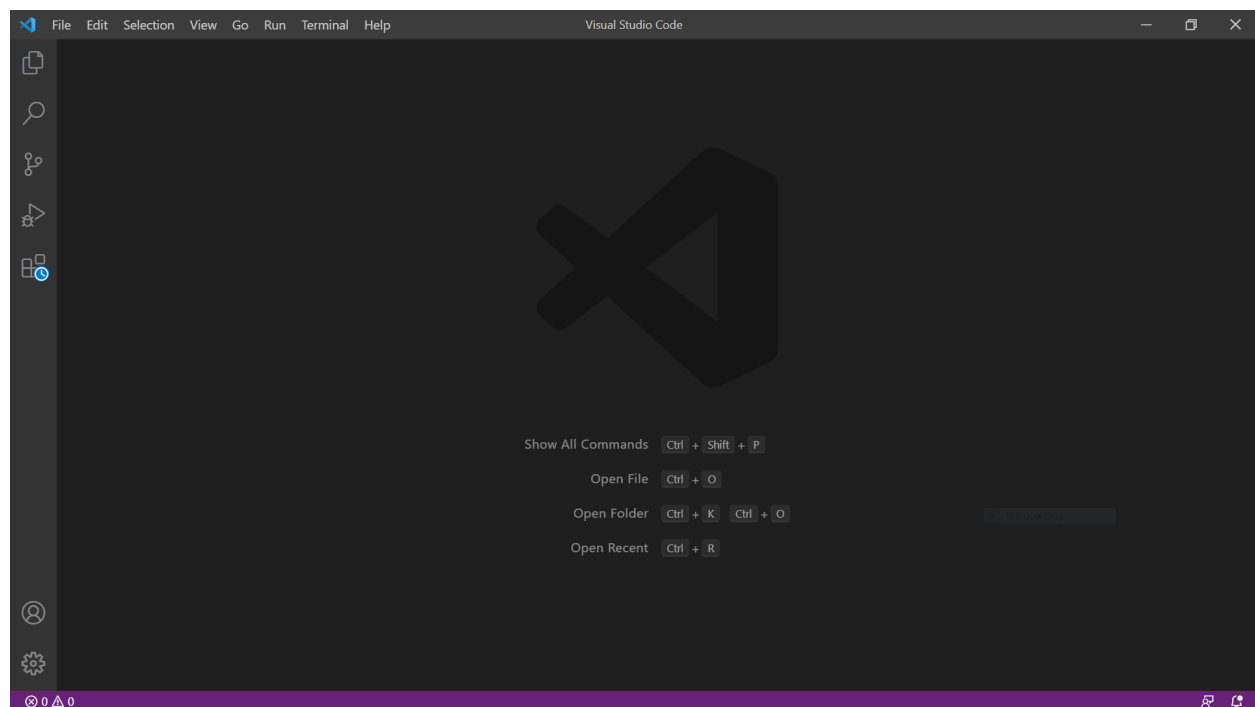
```
Administrator: Windows PowerShell
choco feature enable -n allowGlobalConfirmation
Do you want to run the script?([Y]es/[A]ll - yes to all/[N]o/[P]rint): Y

Merge Tasks: !runCode, desktopicon, quicklaunchicon, addcontextmenufiles, addcontextmenufolders, associatewithfiles,
addtopath
Downloading vscode.install 64 bit
  from 'https://az764295.vo.msecnd.net/stable/f30a9b73e8ffc278e71575118b6bf568f04587c8/VSCodeSetup-x64-1.54.1.exe'
Progress: 100% - Completed download of C:\Users\sagar\AppData\Local\Temp\chocolatey\vscode.install\1.54.1\VSCodeSetup
-x64-1.54.1.exe (69.82 MB).
Download of VSCodeSetup-x64-1.54.1.exe (69.82 MB) completed.
Hashes match.
Installing vscode.install...
vscode.install has been installed.
  vscode.install can be automatically uninstalled.
Environment Vars (like PATH) have changed. Close/reopen your shell to
see the changes (or in powershell/cmd.exe just type `refreshenv`).
The install of vscode.install was successful.
  Software installed to 'C:\Program Files\Microsoft VS Code\'

vscode v1.54.1 [Approved]
vscode package files install completed. Performing other installation steps.
The install of vscode was successful.
  Software install location not explicitly set, could be in package or
  default install location if installer.

Chocolatey installed 3/3 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).
PS C:\Windows\system32>
```

Screenshot 16:



Information 16: Check the installation of IDE by launching **VSCode**.