

NODE.JS

Name: Sameer Gupta

Roll no: 252010036

Node.js is a very powerful JavaScript-based platform built on Google Chrome's JavaScript V8 Engine. It is used to develop I/O intensive web applications like video streaming sites, single-page applications, and other web applications. Node.js is open source, completely free, and used by thousands of developers around the world.

Node.js is a platform built on chrome's javascript runtime for easily building fast and scalable network applications. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices.

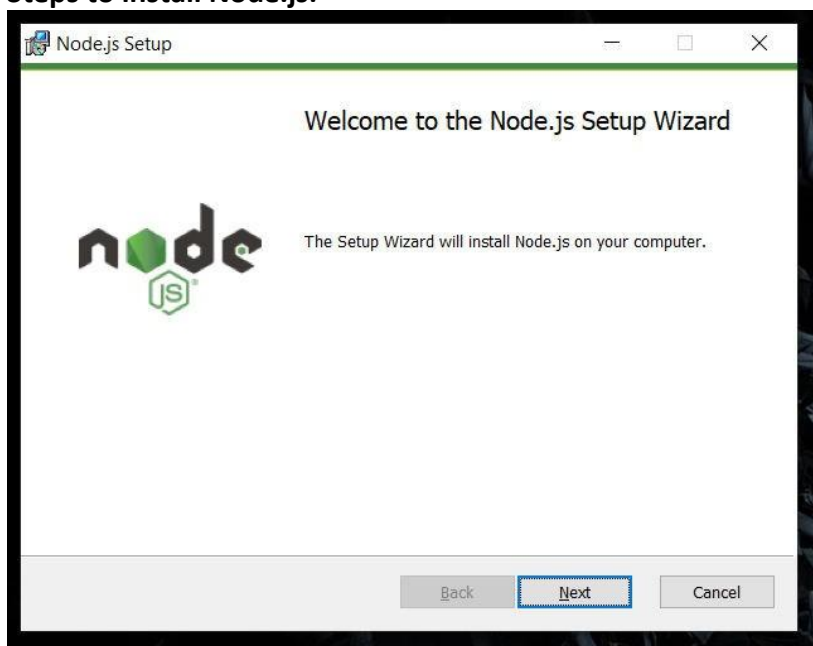
Features of Node.js :

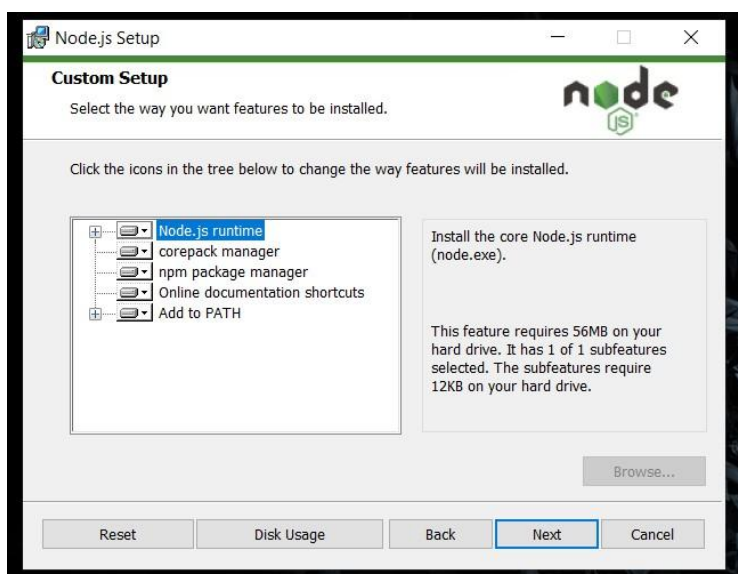
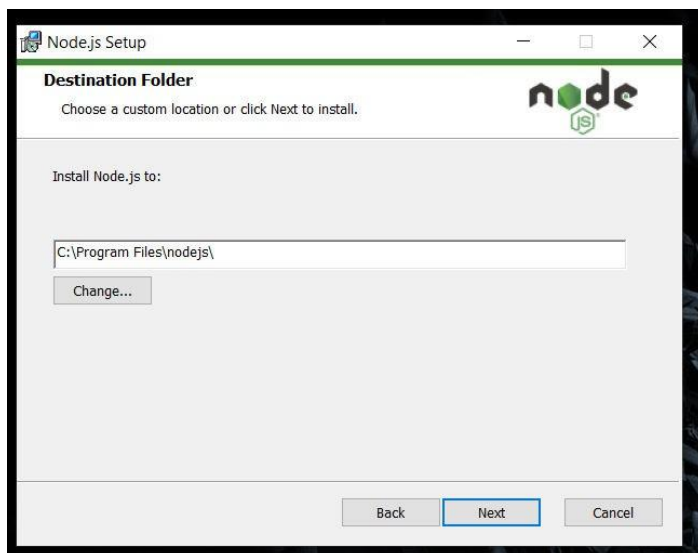
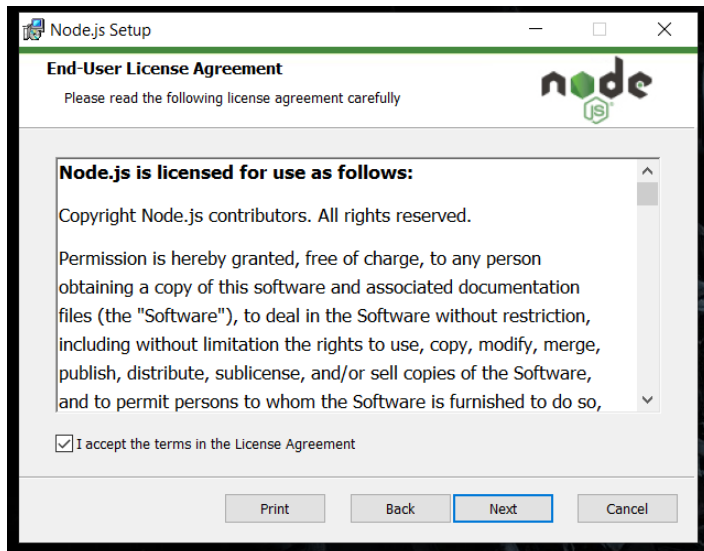
- ❖ Asynchronous and Event Driven
- ❖ Very Fast
- ❖ Single Threaded but Highly Scalable
- ❖ No Buffering

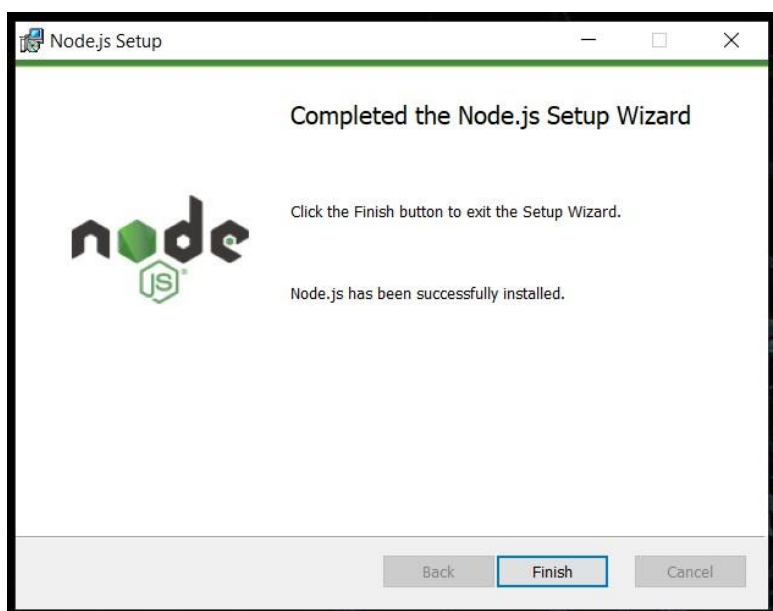
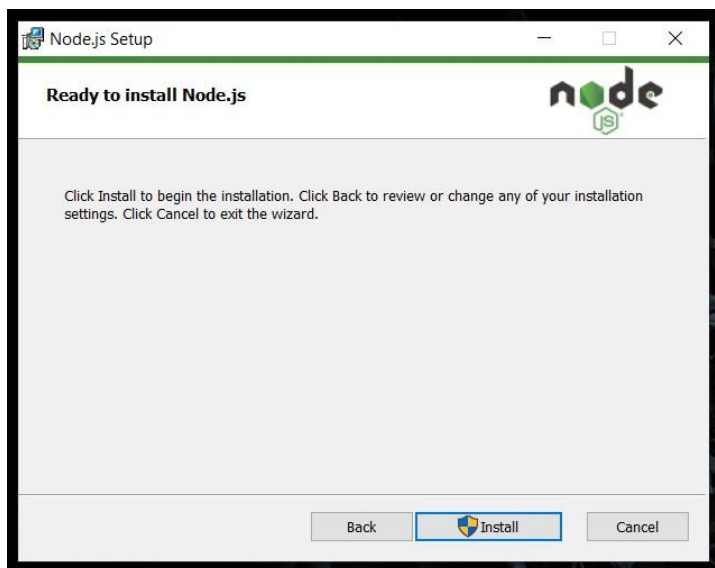
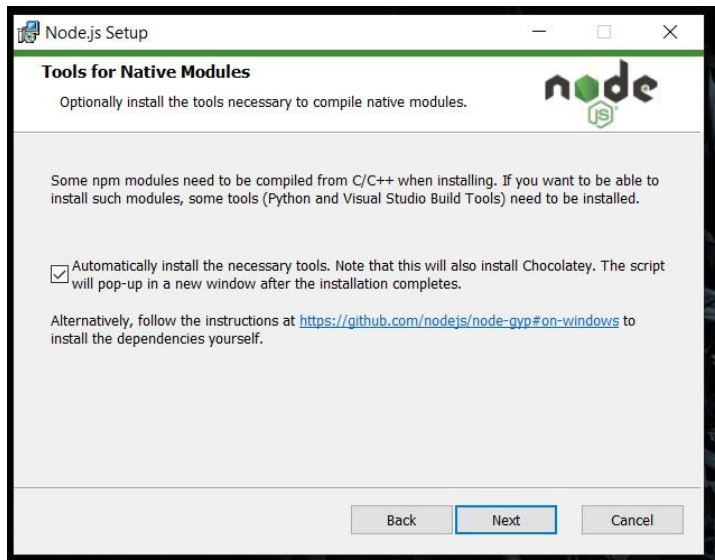
Setting up the Node.Js Environment :

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Steps to install Node.js:







```
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://community.chocolatey.org/api/v2/package/chocolatey/0.12.1.
Downloading https://community.chocolatey.org/api/v2/package/chocolatey/0.12.1 to C:\Users\Prasad\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip
Not using proxy.
Extracting C:\Users\Prasad\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip to C:\Users\Prasad\AppData\Local\Temp\chocolatey\chocoInstall
Installing Chocolatey on the local machine
Creating ChocolateyInstall as an environment variable (targeting 'Machine')
  Setting ChocolateyInstall to 'C:\ProgramData\chocolatey'
WARNING: It's very likely you will need to close and reopen your shell
  before you can use choco.
Restricting write permissions to Administrators
We are setting up the Chocolatey package repository.
The packages themselves go to 'C:\ProgramData\chocolatey\lib'
(i.e. C:\ProgramData\chocolatey\lib\yourPackageName).
A shim file for the command line goes to 'C:\ProgramData\chocolatey\bin'
and points to an executable in 'C:\ProgramData\chocolatey\lib\yourPackageName'.

Creating Chocolatey folders if they do not already exist.

WARNING: You can safely ignore errors related to missing log files when
  upgrading from a version of Chocolatey less than 0.9.9.
  'Batch file could not be found' is also safe to ignore.
  'The system cannot find the file specified' - also safe.
chocolatey.nupkg file not installed in lib.
Attempting to locate it from bootstrapper.
PATH environment variable does not have C:\ProgramData\chocolatey\bin in it. Adding...
WARNING: Not setting tab completion: Profile file does not exist at
'C:\Users\Prasad\OneDrive\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1'.
Chocolatey (choco.exe) is now ready.
You can call choco from anywhere, command line or powershell by typing choco.
Run choco /? for a list of functions.
You may need to shut down and restart powershell and/or consoles
  first prior to using choco.
Ensuring Chocolatey commands are on the path
Ensuring chocolatey.nupkg is in the lib folder
Chocolatey v0.12.1
Upgrading the following packages:
python;visualstudio2019-workload-vctools
By upgrading, you accept licenses for the packages.
python is not installed. Installing...
Progress: Downloading python3 3.10.2... 8%
```

```
Node.js command prompt - node

Your environment has been set up for using Node.js 16.13.2 (x64) and npm.

C:\Users\Prasad>node
Welcome to Node.js v16.13.2.
Type ".help" for more information.
> console.log("Hello i am Prasad")
Hello i am Prasad
undefined
> 56+89
145
>
```