

REACT TRAINING DAY 1

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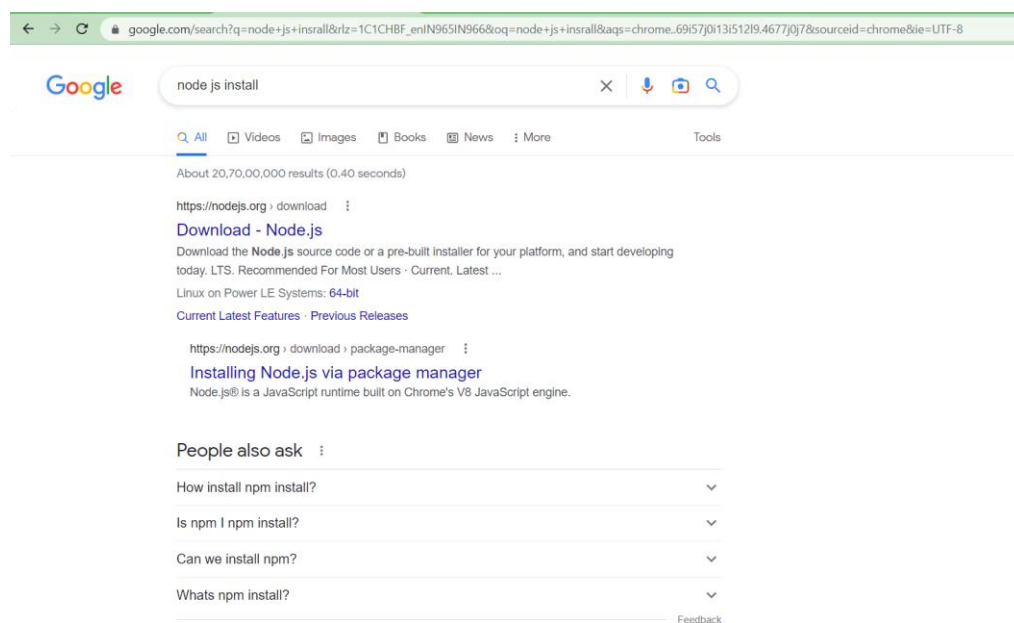
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CSE IV year

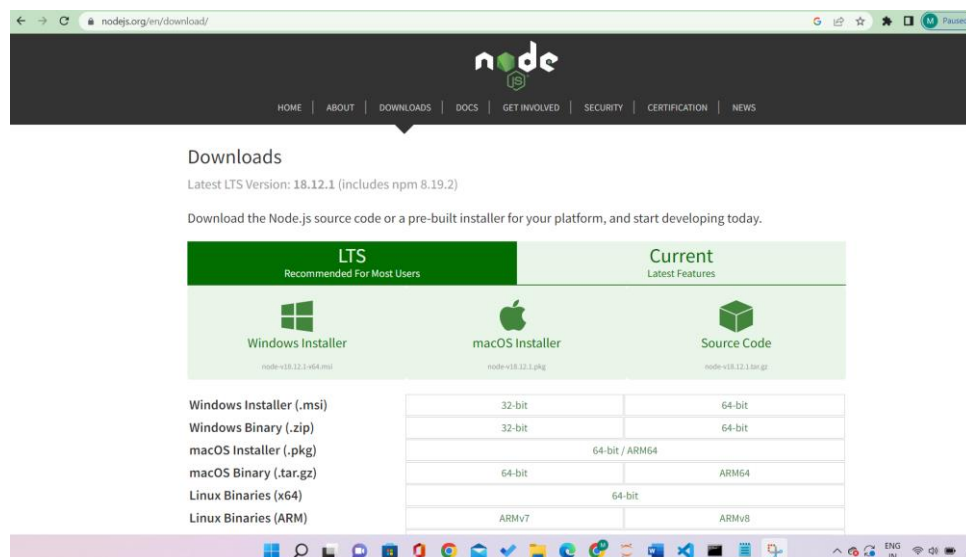
1. INSTALL LATEST VERSION OF VISUAL STUDIO CODE FROM WEB.

2. INSTALLATION OF NPM:

Step 1: Go to search bar and type 'node js' install.



Step 2: Navigate to the first link which is the official website to install node js.



Step 3: After the installation of node js from the official website, we access the command prompt of our system and check which version of npm is installed by using the command: ***'npm -v'***.

```
C:\Users\mgman>npm -v
8.19.2
```

Step 4: Now to create a react application, npm should contain prerequisites for it. So to install, we use the command: ***'npm install create-react-app'***

```
Windows PowerShell
C:\Users\mgman>npm install create-react-app
npm WARN deprecated tar@2.2.2: This version of tar is no longer supported, and will not receive security updates. Please
upgrade asap.

added 67 packages, and audited 68 packages in 6s

5 packages are looking for funding
  run `npm fund` for details

3 high severity vulnerabilities

To address all issues, run:
  npm audit fix

Run `npm audit` for details.
npm notice
npm notice New major version of npm available! 8.19.2 -> 9.1.3
npm notice Changelog: https://github.com/npm/cli/releases/tag/v9.1.3
npm notice Run npm install -g npm@9.1.3 to update!
npm notice
```

To check the audit report we use the command: ***'npm audit'***

The below is the audit report:

```
Windows PowerShell
C:\Users\mgman>npm audit
# npm audit report

tar <=4.4.17
Severity: high
Arbitrary File Creation/Overwrite on Windows via insufficient relative path sanitization - https://github.com/advisories/GHSA-5955-9wpr-37jh
Arbitrary File Creation/Overwrite via insufficient symlink protection due to directory cache poisoning using symbolic li
nks - https://github.com/advisories/GHSA-qq89-hq3f-393p
Arbitrary File Creation/Overwrite via insufficient symlink protection due to directory cache poisoning using symbolic li
nks - https://github.com/advisories/GHSA-9r2w-394v-53qc
Arbitrary File Creation/Overwrite due to insufficient absolute path sanitization - https://github.com/advisories/GHSA-3jfq-g458-7qm9
Arbitrary File Creation/Overwrite via insufficient symlink protection due to directory cache poisoning - https://github.com/advisories/GHSA-r628-mhmq-qjhw
fix available via `npm audit fix --force`
Will install create-react-app@1.2.1, which is a breaking change
node_modules/tar
  tar-pack *
  Depends on vulnerable versions of tar
node_modules/tar-pack
  create-react-app >=1.3.0-alpha.58689133
  Depends on vulnerable versions of tar-pack
node_modules/create-react-app
```

STEP 5: Make a folder to contain all the react projects. Now create a react file to execute the project named as 'mgm_react' by command

npx create-react-app (project_name)

```
Windows PowerShell
C:\>cd D:
D:\MGM\Manjusha_college\Virtusa\React_projs
C:\>D:
D:\MGM\Manjusha_college\Virtusa\React_projs>npx create-react-app mgm_react
Need to install the following packages:
  create-react-app@5.0.1
Ok to proceed? (y) y
npm WARN deprecated tar@2.2.2: This version of tar is no longer supported, and will not receive security updates. Please
  upgrade asap.

Creating a new React app in D:\MGM\Manjusha_college\Virtusa\React_projs\mgm_react.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

added 1394 packages in 3m

213 packages are looking for funding
  run `npm fund` for details

Initialized a git repository.

Installing template dependencies using npm...
added 72 packages in 6s
```

STEP 6: Now redirect to the created project path and start the project by command :

'npm start'

```
Windows PowerShell

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.

Created git commit.

Success! Created mgm_react at D:\MGM\Manjusha_college\Virtusa\React_projs\mgm_react
Inside that directory, you can run several commands:

  npm start
    Starts the development server.

  npm run build
    Bundles the app into static files for production.

  npm test
    Starts the test runner.

  npm run eject
    Removes this tool and copies build dependencies, configuration files
    and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

  cd mgm_react
  npm start

Happy hacking!
```

```
D:\MGM\Manjusha_college\Virtusa\React_projs\mgm_react>npm start

> mgm_react@0.1.0 start
> react-scripts start

(node:34220) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationWarning: 'onAfterSetupMiddleware' option is deprecated. Please use the 'setupMiddlewares' option.
(Use `node --trace-deprecation ...` to show where the warning was created)
(node:34220) [DEP_WEBPACK_DEV_SERVER_ON_BEFORE_SETUP_MIDDLEWARE] DeprecationWarning: 'onBeforeSetupMiddleware' option is deprecated. Please use the 'setupMiddlewares' option.
Starting the development server...
Compiled successfully!

You can now view mgm_react in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://172.21.104.245:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
Compiling...
Compiled successfully!

You can now view mgm_react in the browser.

  Local:            http://localhost:3000
```

STEP 7: Verify the localhost port number as 3000. Make sure this execution should redirect you to the below mentioned site.

