

Name: Aarya Vira  
Roll No: 374  
Subject: HAD PART – II

## PRACTICAL – 1

**Aim:** Install create-react-app and create a new react project.

What is React?

React is a JavaScript library for building user interfaces. React is used to build single page applications. React allows us to create reusable UI components.

In order to learn and test React, we should set up a React Environment on your computer. This Practical uses the "create-react-app" command to create our first react app.

The create-react-app is an officially supported way to create React applications. If you have NPM and Node.js installed, we can create a React application by first installing the create-react-app.

### Steps to Perform Practical:

STEP - I	Open your Command Line or any similar kind of application on your PC or Desktop.
STEP - II	Check whether “NPM” is installed or not by typing the command as ‘npm -v’ in Return the system will throw the Version Ex: 6.14.6 if you have installed npm.
STEP - III	Type the command as <b>“npm -g create-react-app”</b> to create the new React app on your localhost.
STEP - IV	Now to check whether the version is Properly installed we can type the command as “create-react-app --version”.
STEP - V	Type the command “create-react-app (Name of your Application)”  Ex: create-react-app helloworld. <u>Note: App name is React is case sensitive so it accepts only smaller alphabets.</u>
STEP - VI	Now again come to your Command Line and change the location or directory by typing “cd helloworld”.
STEP - VII	To start the app type the command

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	“npm start” , this is main command to start the app because without this you cannot Start your React App.
STEP – VIII	After typing the command ‘npm start’ this will open the localhost: 3000 where our First React app will be Visible.

## NPM Commands:

```
Select Windows PowerShell
Microsoft Windows [Version 10.0.18363.1256]
(c) 2019 Microsoft Corporation. All rights reserved.

D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App>npm install -g create-react-app
C:\Users\ARYA DIPESH VIRA\AppData\Roaming\npm\create-react-app -> C:\Users\ARYA DIPESH VIRA\AppData\Roaming\npm\node_modules\create-react-app\index.js
+ create-react-app@4.0.1
added 67 packages from 25 contributors in 4.228s

D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App>create-react-app --version
4.0.1

D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App>create-react-app HelloWorld
Cannot create a project named "HelloWorld" because of npm naming restrictions:
  * name can no longer contain capital letters

Please choose a different project name.

D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App>create-react-app helloworld

Creating a new React app in D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App\helloworld.

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

> core-js@2.6.12 postinstall D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App\helloworld\node_modules\babel-runtime\node_modules\core-js
> node -e "try(require('./postinstall'))catch(e){"

> core-js@3.8.2 postinstall D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App\helloworld\node_modules\core-js
> node -e "try(require('./postinstall'))catch(e){"

> core-js-pure@3.8.2 postinstall D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App\helloworld\node_modules\core-js-pure
> node -e "try(require('./postinstall'))catch(e){"

> ejs@2.7.4 postinstall D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App\helloworld\node_modules\ejs
> node ./postinstall.js

+ react-scripts@4.0.1
+ cra-template@1.1.1
+ react@17.0.1
+ react-dom@17.0.1
added 1903 packages from 722 contributors and audited 1907 packages in 214.273s

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

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```
Select Windows PowerShell
added 1903 packages from 722 contributors and audited 1907 packages in 214.273s

125 packages are looking for funding
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found 0 vulnerabilities

Git repo not initialized Error: Command failed: git --version
at checkExecSyncError (child_process.js:630:11)
at execSync (child_process.js:666:15)
at tryGitInit (D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App\helloworld\node_modules\react-scripts\scripts\init.js:46:5)
at module.exports (D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App\helloworld\node_modules\react-scripts\scripts\init.js:283:7)
at [eval]:3:14
at Script.runInThisContext (vm.js:120:18)
at Object.runInThisContext (vm.js:309:38)
at Object.<anonymous> ([eval]-wrapper:10:26)
at Module._compile (internal/modules/cjs/loader.js:1137:30)
at evalScript (internal/process/execution.js:94:25) {
  status: 1,
  signal: null,
  output: [ null, null, null ],
  pid: 16020,
  stdout: null,
  stderr: null
}

Installing template dependencies using npm...
npm WARN tsutils@3.18.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.3 (node_modules\chokidar\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.3: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.1 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.1: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
+ @testing-library/user-event@12.6.0
+ @testing-library/jest-dom@5.11.6
+ web-vitals@0.2.4
+ @testing-library/react@11.2.2
added 29 packages from 77 contributors and audited 1936 packages in 18.26s

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

found 0 vulnerabilities

Removing template package using npm...
```

```
Select Windows PowerShell
run `npm fund` for details

found 0 vulnerabilities

Removing template package using npm...
npm WARN tsutils@3.18.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer dependencies yourself.
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npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.3: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.1 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.1: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
removed 1 package and audited 1935 packages in 13.959s

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

found 0 vulnerabilities

Success! Created helloworld at D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App\helloworld
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 helloworld
  npm start

Happy hacking!

D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App>cd helloworld
D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App\helloworld>npm start
```

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```
Select Windows PowerShell

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We suggest that you begin by typing:

  cd helloworld
  npm start

Happy hacking!

D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App>cd helloworld
D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App\helloworld>npm start
> helloworld@0.1.0 start D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App\helloworld
> react-scripts start

i Buds!! Project is running at http://192.168.137.1/
i Buds!! webpack output is served from
i Buds!! Content not from webpack is served from D:\VARYA VIRA\SEM - IV DOCUMENTS\HAD PART - II\PRACTICAL - 1\My Frist React App\helloworld\public
i Buds!! 404s will fallback to /
Starting the development server...
Compiled successfully!

You can now view helloworld in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.137.1:3000

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

## Output:

