## 2. React JS

- Install React.js.
- Creating a React Application and print message "Hello React.js"
- Change the default port 3000 to 3001

## Answer:

To install React is we check the following things:

- node -v
- npm -v

Now, we install CRA(create-react-app) bundle using following command;

- sudo npm -g install create-react-app

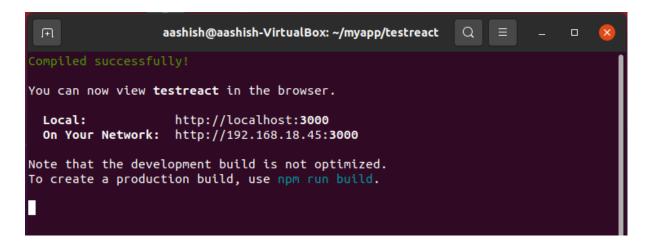
Next, we create a react app named testreact using following command;

- create-react-app testreact
- cd testreact

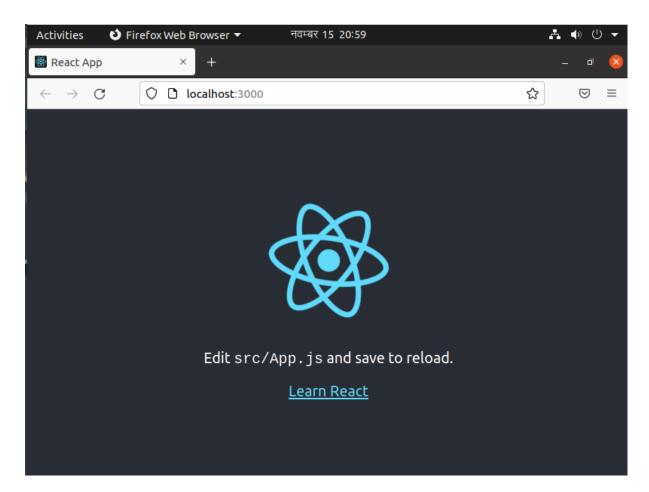
```
Ħ
                           aashish@aashish-VirtualBox: ~/myapp
                                                              Q
                                                                             aashish@aashish-VirtualBox:~/myapp$ create-react-app testreact
Creating a new React app in /home/aashish/myapp/testreact.
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 /home/aashish/myapp/testreact/node_modules/babel-ru
ntime/node_modules/core-js
> node -e "try{require('./postinstall')}catch(e){}"
> core-js@3.19.1 postinstall /home/aashish/myapp/testreact/node_modules/core-js
> node -e "try{require('./postinstall')}catch(e){}"
> core-js-pure@3.19.1 postinstall /home/aashish/myapp/testreact/node_modules/cor
e-js-pure
> node -e "try{require('./postinstall')}catch(e){}"
> ejs@2.7.4 postinstall /home/aashish/myapp/testreact/node_modules/ejs
> node ./postinstall.js
```

To run the react app we use following command;

- npm start



To test the app, we browse localhost:3000 on the web browser.



Next, to change the default port **3000** to **3001**, we can edit **package.json** file as follows;

```
GNU nano 4.8 package.json

"react": "^17.0.2",
"react-dom": "^17.0.2",
"react-scripts": "4.0.3",
"web-vitals": "^1.1.2"

},

"scripts": {

"start": "PORT=3001 react-scripts start",
"build": "react-scripts build",
"test": "react-scripts test",
"eject": "react-scripts eject"

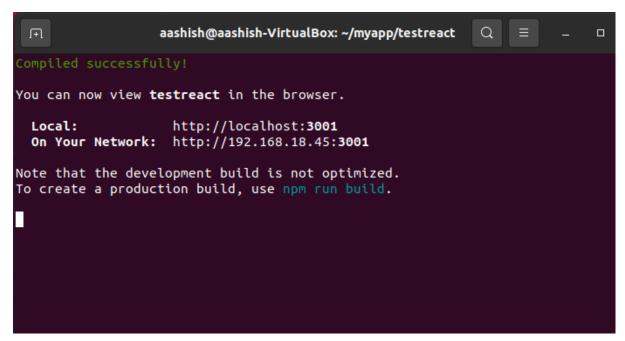
},
```

Now, to edit the message as "Hello React JS", we need to edit App.js file as follows;

```
ſŦ
                aashish@aashish-VirtualBox: ~/myapp/testreact/src
                                                              Q
                                                                              GNU nano 4.8
                                                                          Modified
                                         App.js
import logo from './logo.svg';
import './App.css';
function App() {
 return (
   <div className="App">
     <header className="App-header">
        <img src={logo} className="App-logo" alt="logo" />
        >
         Hello React JS
        <a
         className="App-link"
         href="https://reactjs.org"
         target="_blank"
rel="noopener noreferrer"
          Learn React
        </a>
     </header>
             ^O Write Out ^W Where Is
                                         ^K Cut Text
                                                       ^J Justify
^G Get Help
                                                                       Cur Pos
  Exit
                Read File ^\ Replace
                                                                        Go To Line
                                           Paste Text<mark>^T</mark> To Spell
```

To run the app at port **3001** with the message "Hello React JS", we use;

- npm start



The app was compiled successfully. So, to test the app, we browse **localhost:3001** on the web browser.

