**ASSIGNMENT:-1**

**MODULE:- 9 Reactjs intro**

**Q.1 What is reactJS?**

**ANS:-** React is a free and open-source front-end javascript liabrary for building user interfaces based on commponents.

It is maintained by meta and a community of individual devlopers and companies react can be used to devlop single-page ,mobile ,or server-rendered applications with freamwork .

**Q.2 What is NPM in ReactJS ?**

**ANS:-** NPM is a the node package manager is used for managing and sharing the packages for either react or ANGULAR.

NPM will be installed along with nodejs.

**Q.3 What is Role of node js in reactjs?**

**ANS:-**  nodejs is a framework of javascript which is mainly used for working with the backend of our application or building the backend using javascript

Whereas ReactJS is a javascript front-end library.

It is mainly used for building the user interface or the frontend of our application.

**Q.4 What is CLI command in reactJS?**

**ANS:-** CLI is a command line program that accepts text input to execute operating system functions.

Used to create a passable version of a react application using the command line.

**Q.5 what is components in Reactjs ?**

**ANS:-** components are independent and reusable bits of code. They serve the same purpose as javascript function but work in isolation and return HTML. Components come in two types class components and function components in this tutorial we will concentrate on function components.

**Q.6 what is Header and content components in react Js?**

**ANS:-** React projects are built with Components. To build web applications with React you need to think in Components.

Component files are always named after the component they contain: App.js, Header.js, Logo.js, NavBar.js, NavLink.js, Content.js, Card.js, and Footer.js.

**Q.7 How to install react JS on windows & linux operating system ?**

**ANS:- WINDOWS.**

**Step 1**: Install Node.js installer for windows.

**Step 2:** Once downloaded open NodeJS without disturbing other settings, click on the **Next**button until it’s completely installed.

**Step 3**: Open command prompt  to check whether it is completely installed or not type the command –>

node -v

**Step 4**: Now in the terminal run the below command:

**Step 5:**Now Create a new folder where you want to make your react app using the below command

**Step 6**: Now inside this folder run the command –>

**Step 7**: Now open the IDE of your choice for eg.  Visual studio code and open the folder where you have installed the react app **newfolder**(in the above example)  inside the folder you will see your app’s name **reactapp**(In our example). Use the terminal and move inside your app name folder.Use command  **cd reactapp**(your app name)

**Step 8:**To start your app run the below command

**linux**

1. Open a WSL command line (ie. Ubuntu).
2. Create a new project folder: mkdir ReactProjects and enter that directory: cd ReactProjects.
3. Install React using [npx](https://www.npmjs.com/package/npx)
4. This will first ask for your permission to temporarily install create-react-app and it's associated packages. Once completed, change directories into your new app ("my-app" or whatever you've chosen to call it): cd my-app.
5. Start your new React app:
6. When you're ready to deploy your web app to production, running npm run build will create a build of your app in the "build" folder. You can learn more in the [Create React App User Guide](https://create-react-app.dev/docs/deployment)

**Q.8 How to install NPM and How to chek version of NPM?**

**ANS:-**

**Q.9 How to chek version Of react JS?**

**ANS:-**

**STEP: 1** Using the package.json file

## STEP: 2 **Using the command line**

## ****Q.10 How to change in components of React JS?****

## ****ANS:-****

### **Class Component:**

class Car extends React.Component {

render() {

return <h2>Hi, I am a Car!</h2>;

}

}

### **Function Component:**

function Car() {

return <h2>Hi, I am a Car!</h2>;

}

**Q.How to create a list view in React JS?**

**ANS:-**

function Car(props) {

return <li>I am a { props.brand }</li>;

}

function Garage() {

const cars = ['Ford', 'BMW', 'Audi'];

return (

<>

<h1>Who lives in my garage?</h1>

<ul>

{cars.map((car) => <Car brand={car} />)}

</ul>

</>

);

}

const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(<Garage />);