

## Module – 3 ReactJs

### Q.1 What is React Js?

React.js is a JavaScript library that helps you build fast and interactive user interface by breaking them into small reusable components.

### Q.2 What is NPM in React Js?

NPM stands for Node package manager.

In React ,it is used to:

- Download and install packages.
- Manage dependencies.
- Run scripts/commands.

### Q.3 What is Role of Node Js in react Js?

React JS builds the user interface.

Node JS helps by giving the tools (npm) to install packages, run React smoothly, and can also be used to make the backend.

### Q.4 What is CLI command In React Js?

In React JS, CLI command simply means the commands you type in the terminal to create, start, or build a React app.

### Q.5 What is Components in React Js?

Components in React JS are small reusable parts of a webpage like buttons, header, or forms that together make the whole app.

### Q.6 What is Header and Content Components in React Js?

- Header Component : The top section of a webpage (like logo, navigation menu, title).
- Content Component : The main body part of the webpage (like text, images, articles, forms).

### Q.7 How to install React Js on Windows, linux Operating System? How to install NPM and How to check version of NPM?

On Windows / Linux install Node.js (npm comes with it).

- Create React app : `npx create-react-app myapp`
- Run app : `npm start`
- Check npm version : `npm -v`
- Check node version : `node -v`

### Q.8 How to check version of React Js?

Run in terminal: `npm list react`

Or open package.json and see the “react”: “version” under dependencies.

## Q.9 How to change in components of React Js?

In React JS, components are just files with code (like Header.js). To change them, open the file, edit the JSX or logic, and save it. React will automatically refresh and show your changes in the browser.

## Q.10 How to Create a List View in React Js?

```
import React from 'react'  
  
import { useState } from 'react';  
  
export default function App() {  
  
  const [x, y] = useState([  
  
    {  
      id:1,  
      name:"sachin",  
      tech:"x",  
      salary:123  
    },  
    {  
      id:2,  
      name:"sachin1",  
    }  
  ])  
  
  return (  
    <ul>  
      {x.map((item) =>  
        <li>{item.name}</li>  
      )}  
    </ul>  
  );  
}
```

```
tech:"x1",
salary:123
},
{
id:3,
name:"sachin2",
tech:"x2",
salary:123
}
]);
const updatevalue = () => {
y([
{
id:1,
name:"jainik",
tech:"y",
salary:678
},
{

```

```
    id:2,  
    name:"jainik1",  
    tech:"y1",  
    salary:678  
,  
{  
    id:3,  
    name:"jainik2",  
    tech:"y2",  
    salary:678  
}  
]);  
  
};  
  
return (  
    <div>  
        <button onClick={updatevalue}>OK</button>  
  
        {  
            x.map((item)=>(
```

```

<li key={item.id}>{item.name} {item.salary} {item.tech}</li>
)
)
}
</div>
)
}

```

Q.11 Create Increment decrement state change by button click?

```

import React, { useState } from "react";
export default function App() {
  const [count, setCount] = useState(0); // initial value = 0

  return (
    <div style={{ textAlign: "center", marginTop: "50px" }}>
      <h1>Count: {count}</h1>
      <button onClick={() => setCount(count + 1)}>Increment</button>
      <button onClick={() => setCount(count - 1)}>Decrement</button>
    </div>
  );
}

```

```
<button onClick={() => setCount(0)}>Reset</button>
</div>
);
}
```