

1 inception

part 1

New folder namste react
drag down to vs code

create index.html

vs code uses emmet generates code

Type html:5 then enter basic html code

hello world in html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Namaste React</title>
  </head>
  <body>
    <div id="root">
      <h1>Hello World!</h1>
    </div>
  </body>
</html>
```

hello world in js

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Namaste React</title>
</head>
<body>
  <div id="root"></div>
  <script>
    const heading = document.createElement("h1");
    heading.innerHTML = "Hello World from Javascript";

    const root = document.getElementById("root");
    root.appendChild(heading);
  </script>
</body>
</html>

```

creating html tag
taking reference of root
then putting inside

hello world in react

content delivery network - cdn is the place where the react library hosted

what is cdn?

What is crossorigin?

part 2

created h1 tag hello world inside
created root where all the react code will run
then render

```

<html lang="en">
</head>
<body>
  <div id="root"></div>
  <script
    crossorigin
    src="https://unpkg.com/react@18/umd/react.development.js"
  ></script>
  <script
    crossorigin
    src="https://unpkg.com/react-dom@18/umd/react-dom.development.js"
  ></script>

  <script>
    const heading = React.createElement("h1", {}, "Hello World from React!");

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

    root.render(heading);
  </script>
</body>
</html>

```

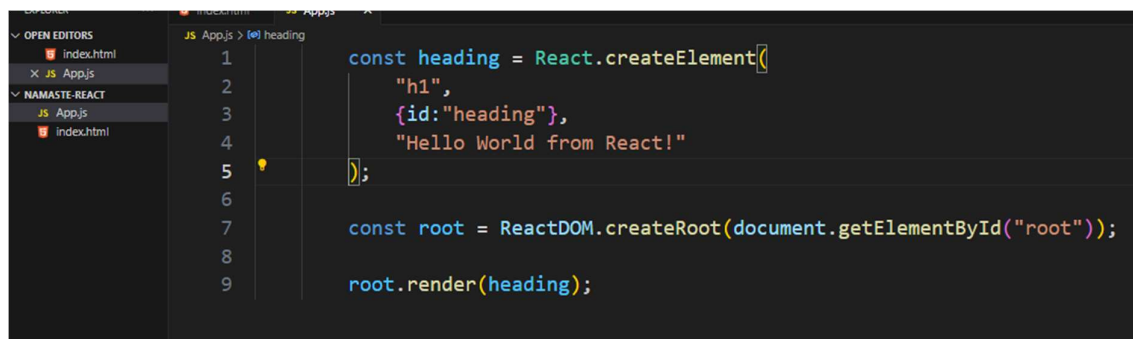
Part 3

createelement api takes 3 arguments name of the tag , attributes, childrens

{ } – giving attribute to the tags

create a file app.js

```
<script src="./App.js"></script>
```



```

1  const heading = React.createElement(
2    "h1",
3    {id:"heading"},
4    "Hello World from React!"
5  );
6
7  const root = ReactDOM.createRoot(document.getElementById("root"));
8
9  root.render(heading);

```

create the h1 tag which browser understand put that inside the root – root.render

React.createElement creates js object

part 4

nested element

parent is object

object is react element

```
/**
 *
 * <div id="parent">
 *   <div id="child">
 *     <h1>I'm h1 tag</h1>
 *   </div>
 * </div>
 *
 * ReactElement(Object) => HTML(Browser Understands)
 */

const parent = React.createElement(
  "div",
  { id: "parent" },
  React.createElement(
    "div",
    { id: "child" },
    React.createElement("h1", {}, "I'm an h1 tag")
  )
);

console.log(parent);

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

root.render(parent);
```

array of children

how to create one more child

to add more than one children u can convert into array

```

/**
 *
 * <div id="parent">
 *   <div id="child">
 *     <h1>I'm h1 tag</h1>
 *   </div>
 *
 * </div>
 *
 *
 * ReactElement(Object) => HTML(Browser Understands)
 */

const parent = React.createElement(
  "div",
  { id: "parent"},
  React.createElement("div", {id: "child"}, [
    React.createElement("h1", {}, "I'm an h1 tag"),
    React.createElement("h2", {}, "I'm an h2 tag"),
  ])
);

console.log(parent);

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

root.render(parent);

```

code will be more messy that is why we have jsx

part 5

orders of file should be sequence

react before app.js

what is root render doing?

replace every thing inside root whatever I pass

react is only working inside div id root

we call react as a library you know react can be applied to the small portion of the page itself

react can work existing apps

