

Week 5

1. What is React

React is a open source javascript library for building user interfaces

2. What do you understand by React component and what command do you use to create a React component with or without property

A react component is a reusable piece of code which can manage its own state and can receive data though prop

Without props

```
Function MyComponent()  
{  
  Return <h1> Hello world </h1>;  
}
```

With props

```
Function MyComponent(props)  
{  
  Return <h1> Hello, {props.name}!</h1>;  
}
```

3. What command will you use to render the the newly created component named as MyReact

ReactDOM.render()

3. Suppose the MyReact Component has a property heading, write down the code that could be used to render the MYReact Component, and pass the message to the property heading as “this is my first element”

```
Import React from 'react';
Import ReactDOM from 'react-dom/client';
Import myReact from './Myreact';

Const root = ReactDOM.createRoot(document.getElementById('root'));
Root.render
(
<MyReact heading = "this is my first element" />
);
```

4. Observe this code and answer the questions below

```
<AppColor heading="This is first element" lbl
="Name :" color="green"/>
```

- a. What is the name of the React Component

AppColor

- b. How many properties this component uses

3:

- Heading
- Lbl
- Color

7. Look at the following Code:

```
function GreetingElementWithProps(props)
{
  Return(
    <div classnName="App">
    <h1>Wellcome, {props.studentname}</h1>;
    </div>
  );
}
Export ???????????
```

what will you write to make this export this function correctly? Hint you need to replace ?????? with the correct word. Add a function that takes two properties as numbers ,add these numbers on the click event of the button and display the sum. Hint you will be using in jsx

```
<button value={props.color} onClick={nameofyourfunction}
```

```
Import React, { useState } from 'react';
```

```
Function GreetingElementwithProp(props)
```

```
{
```

```
  Const[sum, setSum] = useState(0);
```

```
  Const addNumbers = () =>
```

```
  {
```

```
    Const num1 = props.number1;
```

```
    Const num2 = props.number2;
```

```
    setSum(num1 + num2);
```

```
  };
```

```
  Return
```

```
  (
```

```
    <div className = "App">
```

```
<h1> Welcome, {props.studentname}</h1>
<button onClick = {addNumbers}>Add Numbers</button>
<h2>Sum: {sum}</h2>
</div>
);
}
```