**WEEK 6 REACT HO3;**

**What are props in React?**

**🧠 Definition:**

**Props** (short for **properties**) are like **arguments** you pass to a React component.

Just like a function can take input:

function greet(name) {

return "Hello " + name;

}

A React component can take input too — using **props**.

**💡 How props work in scorecalculatorapp**

**Let’s look at this line from App.js:**

<CalculateScore Name="Anshika" School="LNCT" total={480} goal={6} />

Here’s what happens:

* Name="Anshika" → passes "Anshika" to the component
* School="LNCT" → passes "LNCT"
* total={480} → passes the number 480
* goal={6} → passes the number 6

These are all sent as **props** to the CalculateScore component.

**In the CalculateScore component:**

export const CalculateScore = ({ Name, School, total, goal }) => (

// JSX here

)

You are **receiving** those props here using destructuring:

* Name will be "Anshika"
* School will be "LNCT"
* total will be 480
* goal will be 6

**🛠️ How props are used inside the component:**

You are **displaying** them like this:

<span>{Name}</span> // Shows the name passed as prop

<span>{School}</span> // Shows the school

<span>{total}</span> // Shows total marks

<span>{calcScore(total, goal)}</span> // Calculates and shows score

So basically, props are just **data passed from parent to child** — and you are using them to show values and perform calculations.

**📦 Visual Summary:**

**In App.js:**

<CalculateScore Name="Anshika" School="LNCT" total={480} goal={6} />

→ This passes 4 props: Name, School, total, goal

**In CalculateScore.js:**

export const CalculateScore = ({ Name, School, total, goal }) => {

// use them like variables

return (

<div>

<p>{Name}</p>

<p>{School}</p>

<p>{calcScore(total, goal)}</p>

</div>

);

}

**✅ Key Points to Remember:**

| **Concept** | **Meaning** |
| --- | --- |
| Props | Inputs passed to components |
| Where passed | In JSX like <Component propName="value" /> |
| Where used | Inside the component as { propName } |
| Use cases | Display text, do calculations, customize content in components |

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