# **PROPS**

#### Passing data via 'Props'

- "Props" stands for properties.
  - It is a special keyword in React used for passing data from one component to another.
  - Props are arguments passed into React components.
  - props are read-only. So, the data coming from a parent component can't be changed by the child component.
  - ✓Props are passed to components via HTML attributes.
  - Props can be used to pass any kind of data such as: String, Array, Integer, Boolean,
     Objects or, Functions

#### Passing data via 'Props'

```
function App() {
  return (
    <div className="App">
      <h2>Welcome to React!</h2>
      <ExpenseItem expDate="20-12-2020" expTitle="Myntra shopping" expAmount="2500"/>
      <ExpenseItem expDate="21-12-2020" expTitle="Microwave" expAmount="8000"/>
    </div>
                                                       Welcome to React!
export default App;
                                 you can use as many
                                                       20-12-2020 Myntra shopping
                                                                                   Rs 2500
                                 props as you like
const ExpenseItem = (props) => {
                                                       21-12-2020 Microwave
                                                                                   Rs 8000
   return (
       <div className="expense-item">
           <div>{props.expDate}</div>
           <div className="expense-item description">
               <h2>{props.expTitle}</h2>
               Rs {props.expAmount}
           </div>
       </div>
                                             React uses 'props' to pass attributes from
                                             'parent' component to 'child' component.
export default ExpenseItem;
```

#### Working with props

```
function App() {
    return (
      <div className="App">
        <h1> Hi, welcome to React</h1>
        <Person name="Shri" age="20"/>
        <Person name="Soha" age="23">Hobbies : Coding</Person>
        <Person name="sandeep" age="45"/>
      </div>
    );
                                                Hi, welcome to React
                                                    Hi i am Shri and i am 20 years old
//Person.js
                                                    Hi i am Soha and i am 23 years old
```

```
import React from 'react';

import React from 'react';

const person = (props) => {
   return Hi i am Soha and i am 45 years old

Hi i am Soha and i am 45 years old

Hi i am Soha and i am 45 years old

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Hi i am Soha and i am 45 years old

Hi i am Soha and i am 23 years old

Hi i am Soha and i am 45 years old

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Hi i am Soha and i am 45 years old

Props.age

Props.age

Hi i am Soha and i am 45 years old

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Hi i am Soha and i am 45 years old

Hi i am Soha and i am 45 years old

Props.age

Props.age
```

React uses 'props' to pass attributes from 'parent' component to 'child' component.

### Working with props

];

</div>

export default App;

);

```
2020-08-13T18:30:00.000Z Groceries
                                                                                            Rs 900
function App() {
                                                             2021-03-11T18:30:00.000Z New TV
                                                                                           Rs 34000
  const expenses = [
                                 JSON
      title: 'Groceries',
                                                             Rs 25000
       amount: 900,
      date: new Date(2020, 7, 14),
    { title: 'New TV', amount: 34000, date: new Date(2021, 2, 12) },
    { title: 'SofaSet', amount: 25000, date: new Date(2021, 2, 28),
```

Welcome to React!

```
return (
    <div className="Apo">
      <h2>Welcome to React!</h2>
      <ExpenseItem expDate={expenses[0].date} expTitle={expenses[0].title}</pre>
expAmount={expenses[0].amount}/>
      <Expense/Item expDate={expenses[1].date} expTitle={expenses[1].title}</pre>
expAmount={expenses[1].amount}/>
      <ExperiseItem expDate={expenses[2].date} expTitle={expenses[2].title}</pre>
expAmount={expenses[2].amount}/>
```

## "Javascript" in components

```
const ExpenseItem = (props) => {
    const month = props.expDate.toLocaleString('en-US', {month: 'long'});
    const day = props.expDate.toLocaleString('en-US', {day: '2-digit'});
    const /year = props.expDate.getFullYear();
    return (
       <div className="expense-item">
           <div>
               <div>{month}</div>
               <div>{day}</div>
               <div>{year}</div>
           </div>
           <div className="expense-item description">
               <h2\{props.expTitle}</h2>
               Rs {props.expAmount}
           </div>
       </div>
                                                     Welcome to React!
                                                      August
                                                                                 Rs 900
                                                         Groceries
                                                      2020
export default ExpenseItem;
                                                                                Rs 34000
                                                         New TV
                                                      2021
                                                      March
                                                                                Rs 25000
                                                      2021
```

```
import ExpenseDate from "./ExpenseDate";
                                               Splitting components further
const ExpenseItem = (props) => {
   return (
       <div className="expense-item">
                                             passed props as attribute
          <ExpenseDate date={props.expDate}/>
           <div className= 'expense item description">
               <h2>{props.expTitle}</h2>
               Rs {props.expAmount}
           </div>
       </div>
                                                           14
                                                                                   Rs 900
export default ExpenseItem;
                                                           12
                                                              New TV
                                                                                  Rs 34000
import "./ExpenseDate.css"
                                                           28
                                                                                  Rs 25000
const ExpenseDate = (props) => {
    const month = props.date.toLocaleString('en-US', {month: 'long'});
    const day = props.date.toLocaleString('en-US', {day: '2-digit'});
                                                                                App
   const year = props.date.getFullYear();
    return (
        <div className="expense-date">
            <div className="expense-date month">{month}</div>
            <div className="expense-date day">{day}</div>
                                                                              ExpenseItem
            <div className="expense-date year">{year}</div>
        </div>
    );
                                                                             ExpenseDate
export default ExpenseDate:
```