## **Task**

#### **Displaying Person Details with Age Calculation**

Your task is to create a React component that displays the details of persons along with their ages calculated from their date of birth.

#### **Requirements:**

### **PersonDetails Component:**

Create a PersonDetails component that displays the name, date of birth, and age of each person.

Use the provided sample data from the personsData array.

#### **Age Calculation:**

Implement a function calculateAge that takes the date of birth as input and returns the age of the person.

The age should be calculated dynamically based on the current date and the date of birth.

## **Sample Data:**

```
export const personsData = [
{ name: "John Doe", dateOfBirth: "1990-01-15" },
{ name: "Jane Smith", dateOfBirth: "1985-05-20" },
{ name: "Alice Johnson", dateOfBirth: "1995-09-10" },
];
```

## **PersonDetails Component:**

Render a list of persons' details including their names, dates of birth, and ages. Utilize the provided sample data from the personsData array.

# **Age Calculation:**

Implement the calculateAge function to calculate the age of a person based on their date of birth.

Use the current date to calculate the age dynamically.

```
Solution –
```

# App.js

#### Index.css

```
/* General Reset */
body {
 margin: 0;
 font-family: 'Arial', sans-serif;
 background-color: #f9fafb; /* Light background */
 color: #333; /* Neutral text color */
 line-height: 1.6;
h1 {
 text-align: center;
 color: black; /* Indigo */
 font-size: 2.5rem;
 margin-bottom: 1rem;
}
ul {
 list-style-type: none;
 padding: 0;
}
li {
 background: white;
 margin: 1rem auto;
 padding: 1.5rem;
 border-radius: 12px;
 max-width: 500px;
 box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1); /* Soft shadow */
 transition: transform 0.2s ease, box-shadow 0.2s ease;
```

```
}
/* Hover Effect */
li:hover {
 transform: translateY(-5px);
 box-shadow: 0 8px 16px rgba(0, 0, 0, 0.15);
}
p {
 margin: 0.5rem 0;
 font-size: 1.1rem;
strong {
 color: #f94922; /* Accent color */
/* Container Styling */
.App {
 padding: 2rem;
 display: flex;
 flex-direction: column;
 align-items: center;
/* Mobile Responsiveness */
@media (max-width: 768px) {
 li {
  padding: 1rem;
 h1 {
  font-size: 2rem;
```

## PersonDetails.js

```
import React from "react";
// Sample Data
export const personsData = [
 { name: "John Doe", dateOfBirth: "1990-01-15" },
 { name: "Jane Smith", dateOfBirth: "1985-05-20" },
 { name: "Alice Johnson", dateOfBirth: "1995-09-10" },
];
// Function to calculate age
const calculateAge = (dateOfBirth) => {
 const dob = new Date(dateOfBirth);
 const today = new Date();
 let age = today.getFullYear() - dob.getFullYear();
 const monthDifference = today.getMonth() - dob.getMonth();
 if (monthDifference < 0 || (monthDifference === 0 && today.getDate() <
dob.getDate())) {
  age--;
```

```
}
return age;
};
// PersonDetails Component
const PersonDetails = () => {
return (
 <div className="p-4">
  <h1 className="text-2xl font-bold mb-4">Person Details</h1>
   <u1>
    {personsData.map((person, index) => (
    >
      <strong>Name:</strong> {person.name}
     >
      <strong>Date of Birth:</strong> {person.dateOfBirth}
     >
      <strong>Age:</strong> {calculateAge(person.dateOfBirth)} years
     ))}
  </div>
);
};
export default PersonDetails;
```

```
oerson-details-app > src > JS PersonDeta<u>ils.js</u> >
      import React from "react";
       { name: "John Doe", dateOfBirth: "1990-01-15" },
       { name: "Jane Smith", dateOfBirth: "1985-05-20" },
       { name: "Alice Johnson", dateOfBirth: "1995-09-10" },
     const calculateAge = (dateOfBirth) => {
      const dob = new Date(dateOfBirth);
       let age = today.getFullYear() - dob.getFullYear();
        const monthDifference = today.getMonth() - dob.getMonth();
       if (monthDifference < 0 || (monthDifference === 0 && today.getDate() < dob.getDate())) {</pre>
         age--;
       return age;
     const PersonDetails = () => {
          <div className="p-4">
           <h1 className="text-2xl font-bold mb-4">Person Details</h1>
             {personsData.map((person. index) => (
```

# **OUTPUT** –

