**React Component**

**1.**

**Write React code to render a component with the following data:**

* **A heading in italics, blue color, and font-size 25px.**
* **An image.**
* **An ordered list of 3 fruits that start with the letter "A".**
* **The current time and current date in red color, centered.**

**React Props**

**1.**

**Write a React component that prints a car’s brand name and its model name, which are passed as props using JSON.**

**2.**

**Write a React component to create an array of 3 objects, each with properties id, name, branch, and spi. Pass this data to another component and display the data in a table.**

**3.**

**Write a program using ReactJS in which you’ve to create two variable names -Student\_name and University\_name, these both values should be passed to another component names\_Details where these values are printed using props.**

**4.**

**Create react app to pass product image, name and price as properties from one component to another component. Add an array of objects with pic, name and price properties of 2 products. Display Image name and price of the products in browser using map method.**

**5.**

**Create React app to pass student name, roll number, t1 marks and t2 marks of 2 students to component and read the information and display in table format. Use Props.**

**6.**

**Create react app using function component to pass background color(green), font size(50px) font style(italic),text transform(uppercase) as properties to Example .js component and apply css to “This is an React Application” text written in h1 tag in Example2.js component.**

**7.**

**Write a react.js file to pass an integer value to a component, which is defined as a property in app.js file. Fetch that value in component and print its table on console. Write all necessary files i.e. App.js and Component.js. Perform task by function component.**

**8.**

**Write React JS script to display three products. Products having title, product image, price and description. All three products should be horizontally adjacent to each other. Note: using props show all products and use Functional component for complete this script.**

**9.**

**Create a React function component named File1 that receives two props, productName and price. The component should display the product name and price. Additionally, add a button labeled "Add to cart" to the component. When the button is clicked onClick event triggered and an alert should be displayed with the message "Your Product is Added to cart!".**

**React Events**

**1.**

**Create a component to perform the following tasks:**

1. **Add a text field and a submit button.**
   * **While changing the value in the text field, display it below the form.**
   * **Display this text field value in an alert box upon submitting it.**
2. **Add a button to perform click and double-click event tasks.**
   * **On click event, display a message in an h3 tag saying “You clicked once”.**
   * **On double-click event, display a message in an h3 tag saying “You clicked twice”.**
   * **These messages should be displayed below the button.**

**2.**

**Implement a character counter that displays the number of characters entered in a textarea input.**

**Filter & Map**

**1.**

**Write a ReactJS code in which we have apply filter to skip digit “3” from the array of 1 to 5 and display all remaining digits of the array.**

**2**

**Write a ReactJS code in which we have apply filter to skip digits which are less than “10” from the array and display all remaining digits of the array [3,5,11,4,17,8,21,2,26,13,8].**

**3**

**Write react js script to perform the tasks as asked below.  
Add an array of objects which contains name and age of people.   
Apply filter to find people with age less than 40. And display name of all people using map function.**

**4.**

**Write react js script to perform the tasks as asked below.  
Add an array of objects which contains name and branch(CSE,IT,CE) of students.   
Apply filter to find students who are from CSE branch. And display name of all studens of CSE branch using map function.**

**5.**

**Create react app to pass product image, name and price as properties from one component to another component. Add an array of objects with pic, name and price properties of 2 products. Display Image name and price of the products in browser using map method.**

**6.**

**Write a program to create function based ReactJS app having an array of 6 people having mentioned age [70,83,38,65,49,94] and display list of people whose age is greater than 60 using filter method. Also display total count of people whose age is greater than 60 on the same page.**

**7.**

**Write react js script to perform the task as below using function component:  
• Create array of objects which have id, name & city of person.  
• Display id & name of persons having city name “Ahmedabad” by using map function.  
No need to write App.js file.**

**React Routing**

**1**

**Create react app to perform tasks as asked.  
 First create files as asked below in routing folder  
1. Home.js - for the home page content  
2. Shop.js - for the shop page content  
3. Contact.js - for the contact page content  
4. Nopage.js - for the page other than mentioned links**

**2  
Create Main.js file which contains Links for Home, Shop and Product page. Also, add functionality of page routing. Finally call Main.js in App.js.**

**3**

**Create react app and use routing functionality of react to perform the tasks as asked.  
Create one file named Main.js which contains links for home and about page and routing functionality.  
In Home.js file add one image and heading(h1) "LJ University"  
In About.js file add branch list (CSE,IT,CE).**

**4**

**Create react app and use routing functionality of react to perform the tasks as asked.  
Create one file named Main.js which contains links for React Js, Node Js and Express Js and routing functionality.  
Create components for each links and add heading "React JS","Node JS" and "Express JS" in component files Ex1.js, Ex2.js and EX3.js respectively.**

**5**

**Create react app using function component to perform tasks as asked.   
First create files as asked below in folder named “ component”  
1. Login.js - for the login page content  
2. Product.js - for the Product page content  
3. Contact.js - for the contact page content  
4. About.js - for the about page content  
Create Home.js file which contains Links for Login,Product,Contact and About page. Also, add functionality of page routing.  
Finally call Home.js in App.js.  
Write code for All necessary files.**

**6**

**Create a React app to perform tasks as asked using functional component:  
1)Create a react Router that includes three routes: Home, Product, and Contact and implement navigation between these routes.**

**2)Create a route that displays a Home page, Product details page and Contact details page.**

**3) When a user clicks on Home page it should navigate to home page and display “Welcome to LJU” in bold in h1 heading. When a user clicks on a Product page, it should navigate to the product detail page and display three products information with price and description using props. And when user clicks on Contact page it should navigate to contact details page and display contact information with blue color font.**

**MCQs**

**1.**

What will will be the output of following program?

import React from 'react';

function App() {

const handleclick = () => {

alert ('Welcome to LJU');

}

return (

<div>

<center>

<button onClick={**handleclick()**}>Click me</button>

</center>

</div>

);

}

export default App;

**2**.

**What will be the output of the following program?**  
const x = 9;  
 let text = "Welcome";  
 x = 10;  
 if (x <= 10) {  
 text = "Welcome To LJU";  
 }  
 return (   
<h1>{text}</h1>  
 )

**3**.

**Correct the following code :**  
function App() {  
 const abc="Hello";  
 return (  
 <div className="App">  
 <h1 style={{backgroundColor:"red"}}> Friends {2+2} </h1>  
 <Example fname=**abc** age="30"/>   
 </div>  
 );  
}  
export default App;

**4**.

**Give the correct output.**  
 import React from 'react';  
 const App = () => {  
 const name = "John";  
 const age = 30;  
 return (  
 <div>  
 <h1>Hello, {name}!</h1> <p>You are {age} years old.</p>  
 <ul>{age > 18 ? <li>You are an adult</li> : <li>You are a minor</li>}</ul>  
 </div> );};  
 export default App;

**5.**

**Identify error/output in following code of App.js file.**  
function App() {  
 const a="Hello";  
 const b=8;  
 return (  
 <div className="App">  
 <h1 style={{backgroundColor:"green"}}> The addition is: {a+2+b} </h1>  
</div>  
 );  
}  
export default App;

**6**.

Identify error/output in following code of App.js file.

const arr=[10,20,30,40,50];

let sum=0;

return(<div>{ arr.map((v) => {

sum=sum+v;

return <h1>sum = {sum}</h1> }) } </div> );

**7**.

What will be the output of following code?  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
function map1() {  
let arr = [2, 4, 6, 3, 7, 5]  
const val = arr.sort();  
return (  
<div>  
 <h1>Output: </h1>  
 { arr.map((value)=>{  
 const val = value + 3 + "2"  
 return ( <h2>{val}</h2> )  
 })}  
</div>  
)}export default map1

**8**.

What will be the output of the following code:  
import React from 'react';  
export function App() {  
 const arr = [10, 20, 30, 40, 50];  
 return (<>  
 {arr.map((v, index) => {  
 let s = index \* 5;  
 return <h3 key={index}>s = {s}</h3>;  
 })}  
 </>);  
}

**9.**

**Consider following code in App.js file and Example.js file. Identify error/output**import Example from "./Example";  
function App()  
{const obj=  
 {  
 type:"car",models:["i10","i20","Grandi10"]  
 }  
 const string=JSON.stringify(obj);  
 return(  
 <div> <Example name={obj}/> </div>  
 )}  
export default App;

**Example.js**  
const Example = (props)=>{  
 return(  
 <div><h1>{props.name.type}</h1></div>   
 )  
 }  
export default Example

**10**.

**What will be the output of the following code?**  
**App.js**  
import Example from "./Example";  
function App() {  
 return (  
 <div className="App">  
 <Example fname="A" + " B" + " C"/>  
 </div>  
 );  
}  
export default App;  
  
**Example.js**  
import React from 'react'  
  
const Example = (props) => {  
 return (  
 <div>  
 <h1>Friends:{props.fname}</h1>   
 </div>  
 )  
}  
export default Example

**11.**

**What output will be generated by following program.**   
**Example.js**  
import React from 'react'  
const Example = (Props)=>{  
return(  
<div>  
<h1>{**Props**.Name} : {**Prop**.Price}</h1>  
</div>  
);  
}  
export default Example;  
  
**App.js**  
import Example from "./Example";  
function App() {  
return (  
<div>  
<Example Name="Mobile" Price="20000" />  
</div>  
);  
}  
export default App;

**12.**

**Consider following code in App.js file and Example2.js file. Identify error/output. Assume Example2 is properly imported in App.js file.  
App.js**  
const myobj=  
 {  
 name:"Hello",  
 age:3,  
 siblings:["xyz","pqr","abc"]  
 }  
 const str=JSON.stringify(myobj);  
return (  
 <div>  
<Example2 name={myobj}/>  
 </div>  
 );  
**Example2.js**const Example2 = (props) => {  
 return (  
 <div>  
 <h1>{props.name.name}</h1>  
 </div>  
 )  
}

**13.**

**Consider following code in App.js file and Program.js file. Identify error/output.  
App.js**const obj1={Name:"Hiyan",Age:32,Branch:["CSE","CE","IT"]}  
const str = JSON.stringify(obj1);  
return(<div><Program Name={obj1} /></div>); **Program.js**  
const Program=(props)=>{  
return(<div><h1>{props.Name.Branch[0]}</h1></div>);