DAY2REACT_221910312023

DATE: 1 December 2022
DAY: Thursday
TIME: 11 to 12

How to start coding:

```
C:\Users\PRINCESSSADIYA>cd 221910312023

C:\Users\PRINCESSSADIYA\221910312023>cd k12023

C:\Users\PRINCESSSADIYA\221910312023\k12023>code .
```

After entering these commands in command prompt we can see that vs code opens
Go to src, here we will have index.js file where we import all our required file for it's execution.

```
C:\Users\PRINCESSSADIYA\221910312023\k12023>npm start

> k12023@0.1.0 start
> react-scripts start

(node:17448) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationWarning: 'onAfterSetupMiddleware' option is d
eprecated. Please use the 'setupMiddlewares' option.
(Use `node --trace-deprecation ...` to show where the warning was created)
(node:17448) [DEP_WEBPACK_DEV_SERVER_ON_BEFORE_SETUP_MIDDLEWARE] DeprecationWarning: 'onBeforeSetupMiddleware' option is
 deprecated. Please use the 'setupMiddlewares' option.
Starting the development server...
Compiled successfully!

You can now view k12023 in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://172.21.137.111:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
Compiling...
Compiled successfully!

You can now view k12023 in the browser.
```

After writing the code in Vs code, now come to the command prompt and enter the specified command. Now the code will execute on the localhost:3000

Programs:

1. **Display your name using react js**

```
src > JS User.js > [∅] default
1    function User() {
2        return (
3            <div className="User">
4                <h1>Kaushik</h1>
5            </div>
6        );
7    }
8    export default User;
```
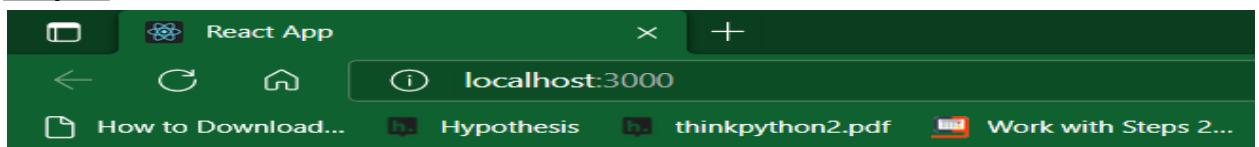
Index.js

```
src > JS index.js > ...
1    import React from 'react';   6.9k (gzipped: 2.7k)
2    import ReactDOM from 'react-dom/client';   513 (gzipped: 320)
3    import './index.css';
4    //import App from './App';
5    import User from './User';
6    import reportWebVitals from './reportWebVitals';
7
8    const root = ReactDOM.createRoot(document.getElementById('root'));
9    root.render(
10       <React.StrictMode>
11         <User />
12       </React.StrictMode>
13   );
14
15   // If you want to start measuring performance in your app, pass a function
16   // to log results (for example: reportWebVitals(console.log))
17   // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
18   reportWebVitals();
```

Output:

2. Display your biodata

User.js:

```jsx
src > JS User.js > ⊘ User
1    function User() {
2        return (
3            <div className="User">
4                <h1>Name: Kaushik</h1>
5                <h1>DOB: 20 July 2001</h1>
6                <h1>Age: 21</h1>
7                <h1>School: Slate-The-School</h1>
8                <h1>College(Inter): Velociity</h1>
9                <h1>University: GITAM</h1>
10               <h1>Qualification: B.tech</h1>
11               <h1>Companies: Virtusa, TCS</h1>
12               <h1>Phone No: 9502981243</h1>
13               <h1>Address: 10-1-397 to 423 Sri Laxmi Apts</h1>
14               <h1>City: Hyderabad</h1>
15           </div>
16       );
17   }
18   export default User;
```
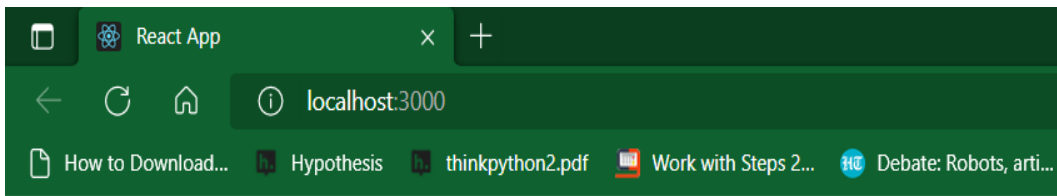
Index.js:

```jsx
src > JS index.js > ...
1    import React from 'react';   6.9k (gzipped: 2.7k)
2    import ReactDOM from 'react-dom/client';   513 (gzipped: 320)
3    import './index.css';
4    //import App from './App';
5    import User from './User';
6    import reportWebVitals from './reportWebVitals';
7
8    const root = ReactDOM.createRoot(document.getElementById('root'));
9    root.render(
10     <React.StrictMode>
11       <User />
12     </React.StrictMode>
13   );
14
15   // If you want to start measuring performance in your app, pass a function
16   // to log results (for example: reportWebVitals(console.log))
17   // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
18   reportWebVitals();
```

Output:

Name: Kaushik

DOB: 20 July 2001

Age: 21

School: Slate-The-School

College(Inter): Velociity

University: GITAM

Qualification: B.tech

Companies: Virtusa, TCS

Phone No: 9502981243

Address: 10-1-397 to 423 Sri Laxmi Apts

City: Hyderabad

3. **Create a file 'GITAM.js' in that file write the sentence 'GITAM UNIVERSITY IS LOCATED IN HYDERABAD'. Execute the file GITAM by importing into index.js file.**
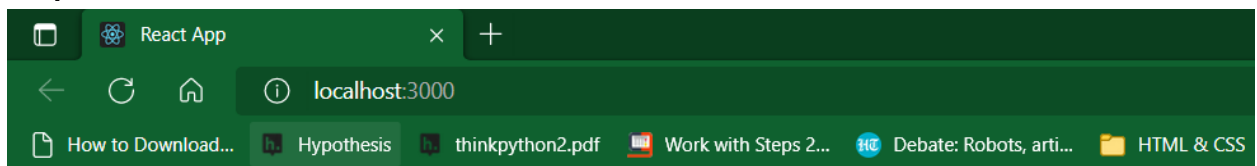
GITAM.js:

```
src > JS GITAM.js > [∅] default
1    function GITAM() {
2        return (
3            <div className="GITAM">
4                <h1>GITAM UNIVERSITY IS LOCATED IN HYDERABAD</h1>
5            </div>
6        );
7    }
8    export default GITAM;
```

Index.js:

```
src > JS index.js > ...
1    import React from 'react';  6.9k (gzipped: 2.7k)
2    import ReactDOM from 'react-dom/client';  513 (gzipped: 320)
3    import './index.css';
4    //import App from './App';
5    import GITAM from './GITAM';
6    import reportWebVitals from './reportWebVitals';
7
8    const root = ReactDOM.createRoot(document.getElementById('root'));
9    root.render(
10       <React.StrictMode>
11         <GITAM />
12       </React.StrictMode>
13   );
14
15   // If you want to start measuring performance in your app, pass a function
16   // to log results (for example: reportWebVitals(console.log))
17   // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
18   reportWebVitals();
```

Output:

React App   ×   +

← C ⌂   ⓘ localhost:3000

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GITAM UNIVERSITY IS LOCATED IN HYDERABAD

4. Create a file 'GITAM.js' in that file write the sentence 'GITAM UNIVERSITY IS LOCATED IN HYDERABAD(221910312023)' print the statement three times. Execute the file GITAM by importing into index.js file.

GITAM.js:

```
src > JS GITAM.js > 🏷 GITAM
1    function GITAM() {
2        return (
3            <div className="GITAM">
4                <h1>GITAM UNIVERSITY IS LOCATED IN HYDERABAD(221910312023)</h1>
5            </div>
6        );
7    }
8    export default GITAM;
```
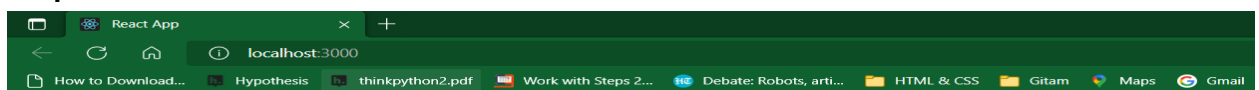
Index.js:

```
src > JS index.js > ...
1    import React from 'react';   6.9k (gzipped: 2.7k)
2    import ReactDOM from 'react-dom/client';   513 (gzipped: 320)
3    import './index.css';
4    //import App from './App';
5    import GITAM from './GITAM';
6    import reportWebVitals from './reportWebVitals';
7
8    const root = ReactDOM.createRoot(document.getElementById('root'));
9    root.render(
10       <React.StrictMode>
11         <GITAM />
12         <GITAM />
13         <GITAM />
14       </React.StrictMode>
15   );
16
17   // If you want to start measuring performance in your app, pass a function
18   // to log results (for example: reportWebVitals(console.log))
19   // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
20   reportWebVitals();
```

Output:

GITAM UNIVERSITY IS LOCATED IN HYDERABAD(221910312023)

GITAM UNIVERSITY IS LOCATED IN HYDERABAD(221910312023)

GITAM UNIVERSITY IS LOCATED IN HYDERABAD(221910312023)

5. **Create a file with yourname.js that contains your name and pin number. Import that file into app.js and then import app.js to index.js and print the result.**

Kaushik.js:

```
src > JS Kaushik.js > 🔷 Kaushik
1    function Kaushik() {
2        return (
3            <div className="Kaushik">
4                <h1>Kaushik</h1>
5                <h1>221910312023</h1>
6            </div>
7        );
8    }
9    export default Kaushik;
```
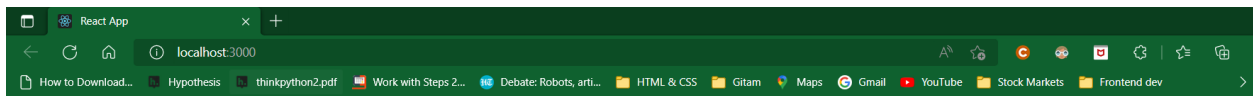
App.js:

```
src > JS App.js > 🔷 App
1    import logo from './logo.svg';
2    import './App.css';
3    import Kaushik from './Kaushik';
4
5    function App() {
6        return (
7            <div className="App">
8                <h1>The result of Kaushik.js file is:</h1>
9                <Kaushik/>
10           </div>
11       );
12   }
13
14   export default App;
15
```

Index.js:

```
src > JS index.js > ...
1    import React from 'react';    6.9k (gzipped: 2.7k)
2    import ReactDOM from 'react-dom/client';    513 (gzipped: 320)
3    import './index.css';
4    import App from './App';
5
6    //import GITAM from './GITAM';
7    import reportWebVitals from './reportWebVitals';
8
9    const root = ReactDOM.createRoot(document.getElementById('root'));
10   root.render(
11       <React.StrictMode>
12           <App />
13       </React.StrictMode>
14   );
15
16   // If you want to start measuring performance in your app, pass a function
17   // to log results (for example: reportWebVitals(console.log))
18   // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
19   reportWebVitals();
```

Output:

React App   ×   +

← C ⌂   ① localhost:3000

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The result of Kaushik.js file is:

Kaushik

221910312023

6. **Create a file called ABC.js in this file print virtusa, india, england take another file XYZ.js, in XYZ.js print UNIVERSITY, SCHOOL, and the contains of ABC.js. Take another file PQR.js print your complete name and the contents of XYZ.js. In App.js print your pin number and the contents of PQR.js. In index.js import App.js and run the application.**

ABC.js:

```
src > JS ABC.js > ABC
1    function ABC() {
2        return (
3            <div className="ABC">
4                <h1>Virtusa</h1>
5                <h1>India</h1>
6                <h1>England</h1>
7            </div>
8        );
9    }
10   export default ABC;
```

XYZ.js:

```
src > JS XYZ.js > default
1    import ABC from './ABC';
2    function XYZ() {
3        return (
4            <div className="XYZ">
5                <h1>UNIVERSITY</h1>
6                <h1>SCHOOL</h1>
7                <ABC/>
8            </div>
9        );
10   }
11   export default XYZ;
```

PQR.js:

```
src > JS PQR.js > ⬡ PQR
1    import XYZ from './XYZ';
2    function PQR() {
3        return (
4          <div className="PQR">
5            <h1>Korugundlla Kaushik</h1>|
6            <XYZ/>
7          </div>
8        );
9    }
10   export default PQR;
```
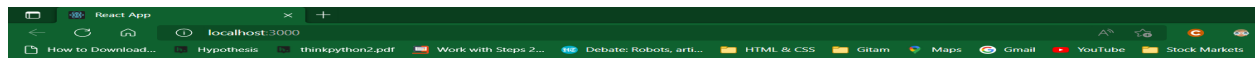
App.js:

```
src > JS App.js > ⬡ App
1   v import logo from './logo.svg';
2     import './App.css';
3     import PQR from './PQR';
4
5   v function App() {
6   v   return (
7   v     <div className="App">
8           <h1>The result of the file is:</h1>
9           <PQR |/>
10        </div>
11      );
12    }
13
14    export default App;
15
```

Index.js:

```
src > JS index.js > ...
1     import React from 'react';   6.9k (gzipped: 2.7k)
2     import ReactDOM from 'react-dom/client';   513 (gzipped: 320)
3     import './index.css';
4     //import ABC from './ABC';
5     //import XYZ from './XYZ';
6     //import PQR from './PQR';
7     import App from './App';
8
9     //import GITAM from './GITAM';
10    import reportWebVitals from './reportWebVitals';
11
12    const root = ReactDOM.createRoot(document.getElementById('root'));
13    root.render(
14      <React.StrictMode>
15        <App />
16      </React.StrictMode>
17    );
18
19    // If you want to start measuring performance in your app, pass a function
20    // to log results (for example: reportWebVitals(console.log))
21    // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
22    reportWebVitals();
```

Output:

The result of the file is:

Korugundlla Kaushik

UNIVERSITY

SCHOOL

Virtusa

India

England

7. Display your biodata using functional component and <p> tag

Kaushik1.js:

```
src > JS Kaushik1.js > ⬡ Kaushik1
1   function Kaushik1() {
2       return (
3           <div className="Kaushik1">
4               <p>Name: Kaushik
5               DOB: 20 July 2001
6               Age: 21
7               School: Slate-The-School
8               College(Inter): Velociity
9               University: GITAM
10              Qualification: B.tech
11              Companies: Virtusa, TCS
12              Phone No: 9502981243
13              Address: 10-1-397 to 423 Sri Laxmi Apts
14              City: Hyderabad</p>
15          </div>
16      );
17  }
18  export default Kaushik1;
```
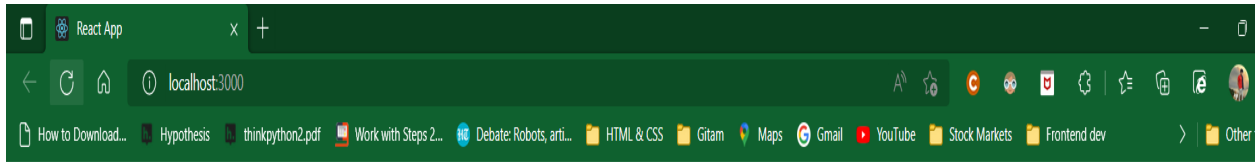
Index.js:

```
src > JS index.js > ...
1   import React from 'react';   6.9k (gzipped: 2.7k)
2   import ReactDOM from 'react-dom/client';   513 (gzipped: 320)
3   import './index.css';
4   //import ABC from './ABC';
5   //import XYZ from './XYZ';
6   //import PQR from './PQR';
7   import Kaushik1 from './Kaushik1';
8
9   //import GITAM from './GITAM';
10  import reportWebVitals from './reportWebVitals';
11
12  const root = ReactDOM.createRoot(document.getElementById('root'));
13  root.render(
14    <React.StrictMode>
15      <Kaushik1 />
16    </React.StrictMode>
17  );
18
19  // If you want to start measuring performance in your app, pass a function
20  // to log results (for example: reportWebVitals(console.log))
21  // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
22  reportWebVitals();
```

Output:

localhost:3000

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Name: Kaushik DOB: 20 July 2001 Age: 21 School: Slate-The-School College(Inter): Velociity University: GITAM Qualification: B.tech Companies: Virtusa, TCS Phone No: 9502981243 Address: 10-1-397 to 423 Sri Laxmi Apts City: Hyderabad
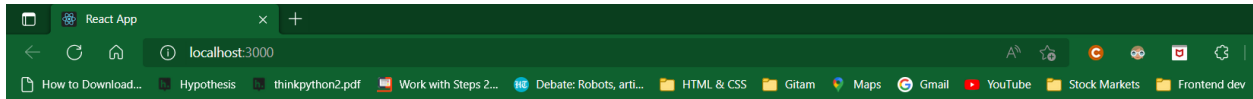
8. Outer function and inner function

App.js:

```jsx
src > JS App.js > App
1   import logo from './logo.svg';
2   import './App.css';
3   //import PQR from './PQR';
4
5   function App() {
6     function Apple(){
7       return(<div>Apple component</div>)
8     }
9     return (
10        <div className="App">
11          <h1>Hello World!</h1>
12          <Apple />
13        </div>
14    );
15  }
16
17  export default App;
```

Index.js:

```jsx
src > JS index.js > ...
1   import React from 'react';   6.9k (gzipped: 2.7k)
2   import ReactDOM from 'react-dom/client';   513 (gzipped: 320)
3   import './index.css';
4   //import ABC from './ABC';
5   //import XYZ from './XYZ';
6   //import PQR from './PQR';
7   import App from './App';
8
9   //import GITAM from './GITAM';
10  import reportWebVitals from './reportWebVitals';
11
12  const root = ReactDOM.createRoot(document.getElementById('root'));
13  root.render(
14    <React.StrictMode>
15      <App />
16    </React.StrictMode>
17  );
18
19  // If you want to start measuring performance in your app, pass a function
20  // to log results (for example: reportWebVitals(console.log))
21  // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
22  reportWebVitals();
23
```

Hello World!

Apple component

9. Create a file 'Scooters.js' and print Chetak. Import Scooter.js to App.js. In App.js we have two functions App and Car. App should print Application and Car should print Suzuki. Now import App.js to index.js
Scooters.js:

```js
src > JS Scooters.js > [∅] default
1  function Scooters() {
2      return (
3          <div className="User">
4              <h1>Chetak</h1>
5          </div>
6      );
7  }
8  export default Scooters;
```
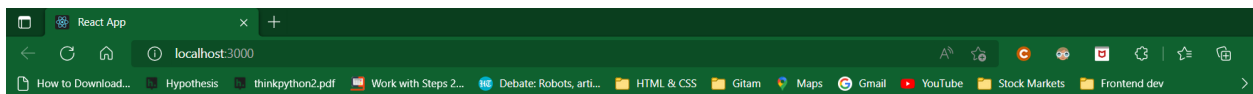
App.js:

```js
src > JS App.js > ⊗ App
1  import logo from './logo.svg';
2  import './App.css';
3  import Scooters from './Scooters';
4
5  function App() {
6      function Car(){
7          return(<div>Suzuki</div>)
8      }
9      return (
10         <div className="App">
11             <h1>Application</h1>
12             <Car />
13             <Scooters />
14         </div>
15     );
16 }
17
18 export default App;
```

Index.js:

```
src > JS index.js > ...
  1   import React from 'react';   6.9k (gzipped: 2.7k)
  2   import ReactDOM from 'react-dom/client';   513 (gzipped: 320)
  3   import './index.css';
  4   //import ABC from './ABC';
  5   //import XYZ from './XYZ';
  6   //import PQR from './PQR';
  7   import App from './App';
  8
  9   //import GITAM from './GITAM';
 10   import reportWebVitals from './reportWebVitals';
 11
 12   const root = ReactDOM.createRoot(document.getElementById('root'));
 13   root.render(
 14     <React.StrictMode>
 15       <App />
 16     </React.StrictMode>
 17   );
 18
 19   // If you want to start measuring performance in your app, pass a function
 20   // to log results (for example: reportWebVitals(console.log))
 21   // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
 22   reportWebVitals();
 23
```

Output:

Application

Suzuki

Chetak