Create a new React Application with the name "myfirstreact", Run the application to print "welcome to the first session of React" as heading of that page.

```
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 Command Prompt
Microsoft Windows [Version 10.0.26100.4652]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Hp>d:
D:\>npm install -g create-react-app
npm warn deprecated inflight@1.0.6: This module is not supported, and leaks
memory. Do not use it. Check out lru-cache if you want a good and tested way
to coalesce async requests by a key value, which is much more comprehensive
and powerful.
npm warn deprecated fstream-ignore@1.0.5: This package is no longer supporte
npm warn deprecated uid-number@0.0.6: This package is no longer supported.
npm warn deprecated rimraf@2.7.1: Rimraf versions prior to v4 are no longer
supported
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supp
npm warn deprecated fstream@1.0.12: This package is no longer supported.
npm warn deprecated tar@2.2.2: This version of tar is no longer supported, a
nd will not receive security updates. Please upgrade asap.
added 64 packages in 43s
4 packages are looking for funding
  run 'npm fund' for details
D:\>npx create-react-app myfirstreact
create-react-app is deprecated.
You can find a list of up-to-date React frameworks on react.dev
For more info see: https://react.dev/link/cra
This error message will only be shown once per install.
Creating a new React app in D:\myfirstreact.
Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...
added 1323 packages in 2m
```

```
Success! Created myfirstreact at D:\myfirstreact
Inside that directory, you can run several commands:

npm start
Starts the development server.

npm run build
Bundles the app into static files for production.

npm test
Starts the test runner.

npm run eject
Removes this tool and copies build dependencies, configuration files and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

cd myfirstreact
npm start

Happy hacking!

D:\>cd myfirstreact
```

```
D:\myfirstreact>npm start
> myfirstreact@0.1.0 start
> react-scripts start
(node:13112) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationW
arning: 'onAfterSetupMiddleware' option is deprecated. Please use the 'setup
Middlewares' option.
(Use `node --trace-deprecation ...` to show where the warning was created)
(node:13112) [DEP_WEBPACK_DEV_SERVER_ON_BEFORE_SETUP_MIDDLEWARE] Deprecation
Warning: 'onBeforeSetupMiddleware' option is deprecated. Please use the 'set
upMiddlewares' option.
Starting the development server...
Compiled with warnings.
[eslint]
src\App.js
  Line 1:8: 'logo' is defined but never used no-unused-vars
Search for the keywords to learn more about each warning.
To ignore, add // eslint-disable-next-line to the line before.
WARNING in [eslint]
src\App.js
  Line 1:8: 'logo' is defined but never used no-unused-vars
webpack compiled with 1 warning
```



2. ReactJS_Hands_On

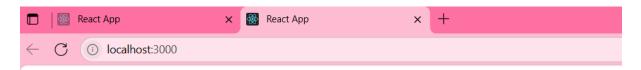
Create a react app for Student Management Portal named StudentApp and create a component named Home which will display the Message "Welcome to the Home page of Student Management Portal". Create another component named About and display the Message "Welcome to the About page of the Student Management Portal". Create a third component named Contact and display the Message "Welcome to the Contact page of the Student Management Portal". Call all the three components.

1. Create a new folder under Src folder with the name "Components". Add a new file named "Home.js"

2. Add a new file named "Contact.js" in Components folder

3. Add a new file named "About.js" in Components folder

4. Add a new file named "App.js" in src folder



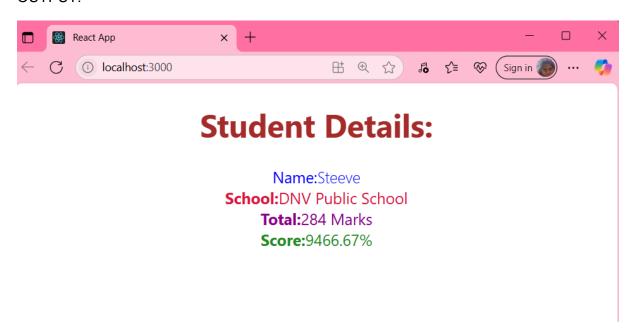
Welcome to the Home Page of the Student Management Portal
Welcome to the About Page of the Student Management Portal
Welcome to the Contact Page of the Student Management Portal

Create a react app for Student Management Portal named scorecalculatorapp and create a function component named "CalculateScore" which will accept Name, School, Total and goal in order to calculate the average score of a student and display the same.

```
src > JS App.js > ...
       import logo from './logo.svg';
       import './App.css';
       import { CalculateScore } from './CalculateScore';
       function App() {
         return (
            <div>
              <CalculateScore Name={"Steeve"}</pre>
              School={"DNV Public School"}
             total={284}
             goal={3}
  11
            </div>
 12
 13
         );
 15
       export default App;
 17
```

```
src > JS CalculateScore.js > ...
  1
       import '../src/mystyle.css';
      const percentToDecimal = (decimal) => {
       return (decimal * 100).toFixed(2) + '%';
      };
      const calcScore = (total, goal) => {
      return percentToDecimal(total / goal);
      };
      export const CalculateScore = ({ Name, School, total, goal }) => (
        <div className="formatstyle">
           <h1><font color="Brown">Student Details:</font></h1>
           <div className="Name">
            <b><span>Name:</span></b>
             <span>{Name}</span>
           </div>
           <div className="School">
            <b><span>School:</span></b>
             <span>{School}</span>
           </div>
           <div className="Total">
             <b><span>Total:</span></b>
             <span>{total}</span>
             <span> Marks</span>
           </div>
           <div className="Score">
            <b>Score:</b>
             <span>{calcScore(total, goal)}</span>
           </div>
        </div>
       );
```

```
mystyle.css > ધ .Score
     .Name{
         font-weight:300;
         color:□blue;
     .School{
         color: ■ crimson
     .Total{
         color: ■darkmagenta;
     .formatstyle{
11
         text-align:center;
12
         font-size: large;
13
     .Score{
15
         color: ■forestgreen;
17
```



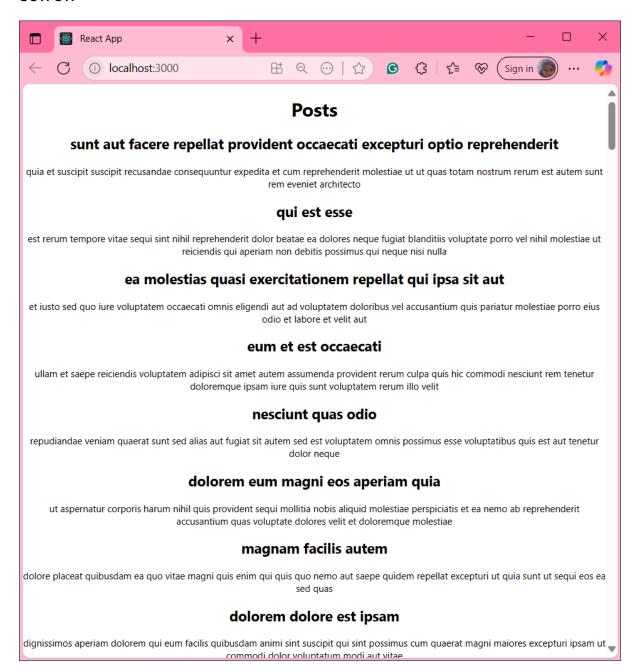
- 1. Create a new react application using *create-react-app* tool with the name as "blogapp"
- 2. Open the application using VS Code
- 3. Create a new file named as **Post.js** in **src folder** with following properties
- 4. Create a new class based component named as Posts inside Posts.js file
- 5. Initialize the component with a list of Post in state of the component using the constructor
- Create a new method in component with the name as loadPosts() which will be responsible
 for using Fetch API and assign it to the component state created earlier. To get the posts
 use the url (https://jsonplaceholder.typicode.com/posts)
- 7. Implement the **componentDidMount()** hook to make calls to **loadPosts()** which will fetch the posts
- 8. Implement the **render()** which will display the title and post of posts in html page using heading and paragraphs respectively.
- 9. Define a **componentDidCatch()** method which will be responsible for displaying any error happing in the component as alert messages.

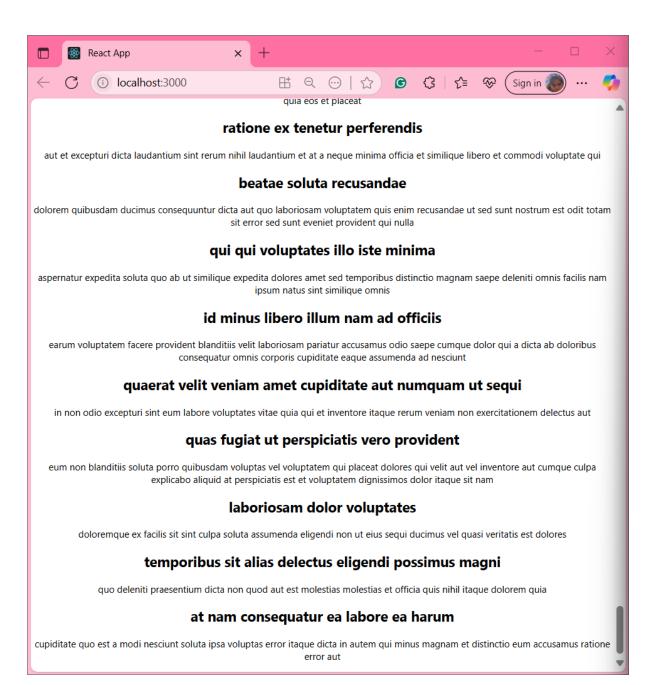
Posts.js

```
JS Post.js
          X JS App.js
src > JS Post.js > ...
      import React from 'react';
       constructor(userId, id, title, body) {
          this.body = body;
      class Posts extends React.Component {
      constructor(props) {
        super(props);
         this.state = {
            error: null
        loadPosts() {
          fetch('https://jsonplaceholder.typicode.com/posts')
            .then(response => {
              if (!response.ok) throw new Error("Failed to fetch posts");
              return response.json();
            .then(data => {
              const postList = data.map(p => new Post(p.userId, p.id, p.title, p.body));
              this.setState({ posts: postList });
             .catch(error => {
              this.setState({ error: error.message });
```

```
componentDidMount() {
   this.loadPosts();
 componentDidCatch(error, info) {
    alert("An error occurred: " + error);
    console.error("Error details:", info);
 render() {
   const { posts, error } = this.state;
   if (error) {
    return <h2 style={{ color: "red" }}>Error: {error}</h2>;
       <h1>Posts</h1>
       {posts.map(post => (
         <div key={post.id} style={{ marginBottom: '1rem' }}>
            <h2>{post.title}</h2>
           {post.body}
        ))}
export default Posts;
```

App.js





TASK: My Academy team at Cognizant want to create a dashboard containing the details of ongoing and completed cohorts. A react application is created which displays the detail of the cohorts using react component. You are assigned the task of styling these react components.

CohortDetails.js

```
src > JS CohortDetails.js > ...
      import styles from './CohortDetails.module.css';
      function CohortDetails(props) {
          const cohort = props.cohort;
              <div className={styles.box}>
                  <h3 style={{ color: cohort.currentStatus === 'ongoing' ? 'green' : 'blue' }}>
                      {cohort.cohortCode} -
                      <span> {cohort.technology}</span>
                      <dt>Started On</dt>
                      <dd>{cohort.startDate}</dd>
                      <dt>Current Status</dt>
                      <dd>{cohort.currentStatus}</dd>
                      <dt>Coach</dt>
                      <dd>{cohort.coachName}</dd>
                      <dt>Trainer</dt>
                      <dd>{cohort.trainerName}</dd>
      export default CohortDetails;
```

CohortDetails.module.css

