First Day Code :

import React from "react";

import ReactDOM from "react-dom";

const name = "maaz";

ReactDOM.render(

  <div>

    <h1>Hello {name}</h1>

    <p>You Lucky Number is 5</p>

  </div>,

  document.getElementById("root")

);

In here {} This one I cant write expression like if or else statement

We wriet like this also new version

import React from 'react';

import ReactDOM from 'react-dom/client';

import './index.css';

// Select the root element

const root = ReactDOM.createRoot(document.getElementById('root'));

// Render the content

root.render(

<div>

<h1>Hello World!</h1>

<p>This is a paragraph.</p>

</div>

);

import React from "react";

import ReactDOM from "react-dom";

const fName = "Angela";

const lName = "Yu";

const num = 7;

ReactDOM.render(

  <div>

    <h1>Hello {fName + " " + lName}!</h1>

    <p>Your lucky number is {num}</p>

  </div>,

  document.getElementById("root")

);

Task 2:

import React from "react";

import ReactDOM from "react-dom";

const name = "Maaz";

const CURRENTYEAR = new Date().getFullYear();

ReactDOM.render(

  <div>

    <p>Created by {name} </p>

    <p>&copy; {CURRENTYEAR} </p>

  </div>,

  document.getElementById("root")

);

New Task:

So in in Html in our react Gobal Varable should be camelCase So This is Example you Should try

//Create a react app from scratch.

//It should display 2 paragraph HTML elements.

//The paragraphs should say:

//Created by YOURNAME.

//Copyright CURRENTYEAR.

//E.g.

//Created by Angela Yu.

//Copyright 2019.

import React from "react";

import ReactDOM from "react-dom";

const name = "Maaz";

const CURRENTYEAR = new Date().getFullYear();

ReactDOM.render(

  <div>

    <img

      className="food-img"

      alt="bacon"

      src="https://hips.hearstapps.com/hmg-prod.s3.amazonaws.com/images/delish-190621-air-fryer-bacon-0035-landscape-pf-1567632709.jpg?crop=0.645xw:0.967xh;0.170xw,0.0204xh&resize=480:\*"

    />

    <img

      className="food-img"

      alt="jamon"

      src="https://images-na.ssl-images-amazon.com/images/I/71lNrnbMXsL.\_SL1200\_.jpg"

    />

    <img

      className="food-img"

      alt="noodles"

      src="https://www.errenskitchen.com/wp-content/uploads/2014/04/quick-and-easy-chinese-noodle-soup3-1.jpg"

    />

  </div>,

  document.getElementById("root")

);

Like here we put className To put in and change the styles in css

img {

  width: 100px;

  height: 100px;

}

import React from "react";

import ReactDOM from "react-dom";

const img = "https://picsum.photos/200";

ReactDOM.render(

  <div>

    <h1 className="heading">My Favourite Foods</h1>

    <img alt="random" src={img + "?grayscale"} />

    <img

      className="food-img"

      alt="bacon"

      src="https://hips.hearstapps.com/hmg-prod.s3.amazonaws.com/images/delish-190621-air-fryer-bacon-0035-landscape-pf-1567632709.jpg?crop=0.645xw:0.967xh;0.170xw,0.0204xh&resize=480:\*"

    />

    <img

      className="food-img"

      alt="jamon"

      src="https://images-na.ssl-images-amazon.com/images/I/71lNrnbMXsL.\_SL1200\_.jpg"

    />

    <img

      className="food-img"

      alt="noodles"

      src="https://www.errenskitchen.com/wp-content/uploads/2014/04/quick-and-easy-chinese-noodle-soup3-1.jpg"

    />

  </div>,

  document.getElementById("root")

);

Task 5:

This is about inline in jfx files how to have styles on html files it will make our work easir

We can make custom style object use jfx here you know it is reall cool you know that

Here is the Example you need it :

import React from "react";

import ReactDOM from "react-dom";

const customStyle = {

  color: "red",

  fontSize: "20px",

  border: "1px solid black"

};

customStyle.color = "blue";

ReactDOM.render(

  <h1 style={customStyle}>Hello World!</h1>,

  document.getElementById("root")

);

Task 7:

This is practice we are going to do it

This is my working that I Tried my best to do it and I am really happy about it

//Create a React app from scratch.

//Show a single h1 that says "Good morning" if between midnight and 12PM.

//or "Good Afternoon" if between 12PM and 6PM.

//or "Good evening" if between 6PM and midnight.

//Apply the "heading" style in the styles.css

//Dynamically change the color of the h1 using inline css styles.

//Morning = red, Afternoon = green, Night = blue.

import React from "react";

import ReactDOM from "react-dom";

const now = new Date();

const hours = now.getHours();

let stats = " "

if (hours > 0 && hours < 12) {

    stats = "Good morning"

}else if (hours >= 12 && hours < 18){

    stats = "Good afternoon";

}else{

    stats = "Good evening"

}

ReactDOM.render(

  <div>

    <h1>{stats}</h1>

  </div>,

  document.getElementById("root")

);

I did not read all of them

import React from "react";

import ReactDOM from "react-dom";

import "./../public/styles.css";

const date = new Date();

const currentTime = date.getHours();

let greeting;

const customStyle = {

  color: "",

};

if (currentTime < 12) {

  greeting = "Good Morning";

  customStyle.color = "red";

} else if (currentTime < 18) {

  greeting = "Good Afternoon";

  customStyle.color = "green";

} else {

  greeting = "Good Night";

  customStyle.color = "blue";

}

ReactDOM.render(

  <h1 className="heading" style={customStyle}>

    {greeting}

  </h1>,

  document.getElementById("root")

);

//Create a React app from scratch.

//Show a single h1 that says "Good morning" if between midnight and 12PM.

//or "Good Afternoon" if between 12PM and 6PM.

//or "Good evening" if between 6PM and midnight.

//Apply the "heading" style in the styles.css

//Dynamically change the color of the h1 using inline css styles.

//Morning = red, Afternoon = green, Night = blue.

.heading {

  font-size: 50px;

  font-weight: bold;

  border-bottom: 5px solid black;

}

Task 7:

React Componets make mutiple componets

I want to make list componet list.jsx

Main code

import React from "react";

import ReactDOM from "react-dom";

import Lists from "./list"

ReactDOM.render(

  <div>

    <h1>My Favourite Foods</h1>

    <Lists/>

  </div>,

  document.getElementById("root")

);

This list componet we have created

import React from "react";

function list() {

  return (

    <ul>

      <li>Bacon</li>

      <li>Jamon</li>

      <li>Noodles</li>

    </ul>

  );

}

export default list;

New one modern

import React from "react";

import ReactDOM from "react-dom";

import App from "./components/App";

ReactDOM.render(<App />, document.getElementById("root"));

Componets files

import React from "react";

import Heading from "./Heading";

import List from "./List";

function App() {

  return (

    <div>

      <Heading />

      <List />

      <List />

    </div>

  );

}

export default App;

import React from "react";

function Heading() {

  return <h1>My Favourite Foods</h1>;

}

export default Heading;

import React from "react";

function List() {

  return (

    <ul>

      <li>Bacon</li>

      <li>Jamon</li>

      <li>Noodles</li>

    </ul>

  );

}

export default List;

### Basic Usage of map() in React

Let’s say you have an array of items and you want to show them in a list:

const fruits = ["Apple", "Banana", "Mango"];

function FruitList() {

return (

<ul>

{fruits.map((fruit, index) => (

<li key={index}>{fruit}</li>

))}

</ul>

);

}

· fruits.map(...) loops through the array.

· key is a unique identifier for React to optimize rendering.

### Mapping Over Objects

If your array is made up of objects (like a list of books):

const books = [

{ id: 1, title: "Clean Code" },

{ id: 2, title: "The Pragmatic Programmer" },

{ id: 3, title: "You Don’t Know JS" }

];

function BookList() {

return (

<div>

{books.map(book => (

<div key={book.id}>

<h3>{book.title}</h3>

</div>

))}

</div>

);

}

### 💡 Tip

Always provide a key (preferably a unique id).

You can map inside JSX or return components.

You can also **pass data as props** to child components.

function Book({ title }) {

return <h3>{title}</h3>;

}

function BookList() {

return (

<div>

{books.map(book => (

<Book key={book.id} title={book.title} />

))}

</div>

);

}

New Task : Have different componets

import React from "react";

import Heading from "./Heading";

function app() {

  return <Heading />;

}

export default app;

import React from "react";

const date = new Date();

const currentTime = date.getHours();

let greeting;

const customStyle = {

  color: "",

};

if (currentTime < 12) {

  greeting = "Good Morning";

  customStyle.color = "red";

} else if (currentTime < 18) {

  greeting = "Good Afternoon";

  customStyle.color = "green";

} else {

  greeting = "Good Night";

  customStyle.color = "blue";

}

function Heading() {

  return (

    <h1 className="heading" style={customStyle}>

      {greeting}

    </h1>

  );

}

export default Heading;

import React from "react";

import ReactDOM from "react-dom";

import "./../public/styles.css";

import App from "./App";

ReactDOM.render(

  <App />,

  document.getElementById("root")

);

import React from "react";

const App = () => {

return (

<h1>Hello, World!</h1>

);

}

export default App;

Another Study Props

We use Props to make our work easy

import React from "react";

import ReactDOM from "react-dom";

function Card(props) {

  return (

    <div>

      <h2>{props.name}</h2>

      <img src={props.img} alt="avatar\_img" />

      <p>{props.tel}</p>

      <p>{props.email}</p>

    </div>

  );

}

ReactDOM.render(

  <div>

    <h1>My Contacts</h1>

    <Card

      name="Beyonce"

      img="https://blackhistorywall.files.wordpress.com/2010/02/picture-device-independent-bitmap-119.jpg"

      tel="+123 456 789"

      email="b@beyonce.com"

    />

    <Card

      name="Jack Bauer"

      img="https://pbs.twimg.com/profile\_images/625247595825246208/X3XLea04\_400x400.jpg"

      tel="+7387384587"

      email="jack@nowhere.com"

    />

  </div>,

  document.getElementById("root")

);

Mapping the component :

const books = [

{ id: 1, title: "React Basics", author: "Dan Abramov" },

{ id: 2, title: "Learning JavaScript", author: "Kyle Simpson" },

{ id: 3, title: "CSS Secrets", author: "Lea Verou" }

];

const BookCard = ({ title, author }) => (

<div className="p-4 m-2 border rounded shadow">

<h2 className="text-xl font-bold">{title}</h2>

<p className="text-gray-600">by {author}</p>

</div>

);

📘 Mapping in Main Component

const BookList = () => {

return (

<div className="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-3 gap-4">

{books.map(book => (

<BookCard key={book.id} title={book.title} author={book.author} />

))}

</div>

);

};

### 🧠 Key Concepts

We have to have key

Key = {contact.id}

map() goes through each item in the books array.

For each item, it returns a Book-card component.

The key prop is required and should be unique to help React identify elements.

Props like title and author are passed down to the Book-card.

I have to do challenge by my self

// var numbers = [3, 56, 2, 48, 5];

//Map -Create a new array by doing something with each item in an array.

// function double(x) {

//   return x \* 2;

// }

// const newNumbers = numbers.map(double);

// var newNumbers = [];

// numbers.forEach(function (x) {

//   newNumbers.push(x \* 2);

// });

// const newNumbers = numbers.map(function (x) {

//   return x \* 2;

// });

// console.log(newNumbers);

//Filter - Create a new array by keeping the items that return true.

// const newNumbers = numbers.filter(function(num) {

//   return num < 10;

// });

// var newNumbers = [];

// numbers.forEach(function(num) {

//   if (num < 10) {

//     newNumbers.push(num);

//   }

// }

//Reduce - Accumulate a value by doing something to each item in an array.

// var newNumber = numbers.reduce(function (accumulator, currentNumber) {

//   console.log("accumulator = " + accumulator);

//   console.log("currentNumber = " + currentNumber);

//     return accumulator + currentNumber;

// })

// var newNumber = 0;

// numbers.forEach(function (currentNumber) {

//   newNumber += currentNumber

// })

//Find - find the first item that matches from an array.

// const newNumber = numbers.find(function (num) {

//   return num > 10;

// })

// console.log(newNumber);

//FindIndex - find the index of the first item that matches.

// const newNumber = numbers.findIndex(function (num) {

//   return num > 10;

// })

// console.log(newNumber);

//Challenge Solution

import emojipedia from "./emojipedia";

const newEmojipedia = emojipedia.map(function(emojiEntry) {

  return emojiEntry.meaning.substring(0, 100);

});

console.log(newEmojipedia);

import React from "react";

import ReactDOM from "react-dom";

import App from "./components/App";

import "./../public/styles.css";

ReactDOM.render(<App />, document.getElementById("root"));

// var numbers = [3, 56, 2, 48, 5];

// const newNumbers = numbers.map(x => x \* x);

//Map -Create a new array by doing something with each item in an array.

// const newNumbers = numbers.map( x => x \* 2);

////Filter - Create a new array by keeping the items that return true.

// const newNumbers = numbers.filter(num => num < 10);

//Reduce - Accumulate a value by doing something to each item in an array.

//const newNumber = numbers.reduce((accumulator, currentNumber) => accumulator + currentNumber);

//Find - find the first item that matches from an array.

// const newNumber = numbers.find(num => num > 10);

//FindIndex - find the index of the first item that matches.

// const newNumber = numbers.findIndex(num => num > 10);