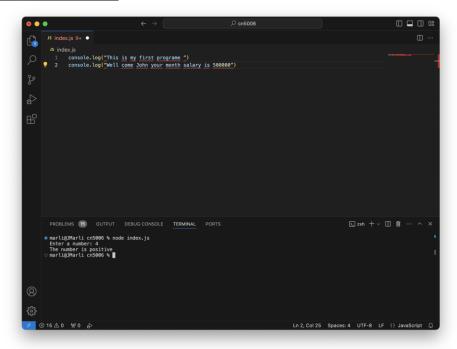
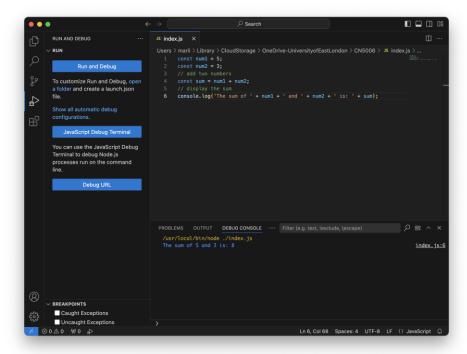
CN5006 PORTFOLIO:

Week 1 code:





Self-evaluation:

I have improved my java script language skills and will work more to improve them. This was a great refresher after the summer holiday.

Exercise:

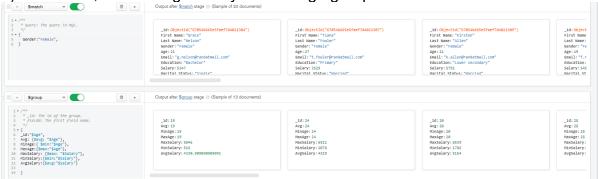
This program was created to function as a calculator that is capable of four kinds of operations.

Week 2 lab tasks:

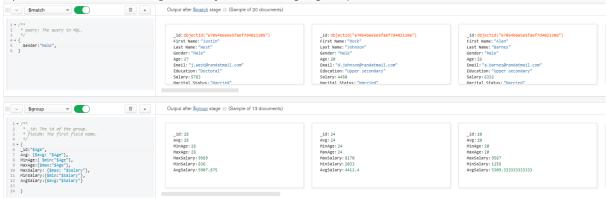
1) Repeat the same process to search Education for Master and .Find the avg,min,max age and avg min max Salary of the people group by Marital status.



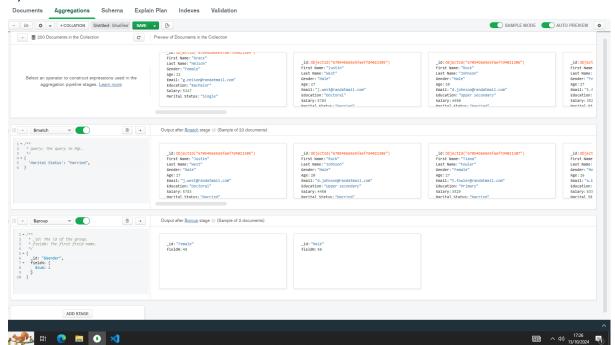
2) 2. find min, max average salary of each age group of female



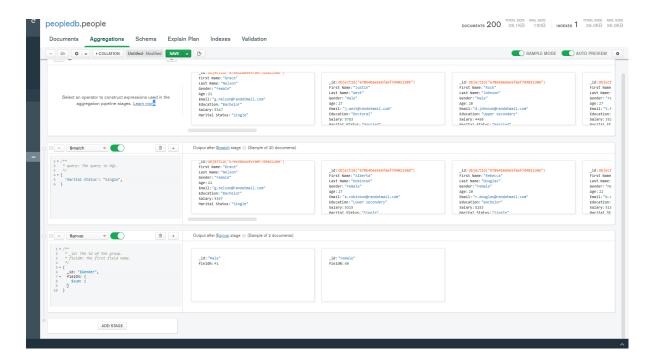
3) find min, max average salary of each age group of male



4) Count married and unmarried females and males.



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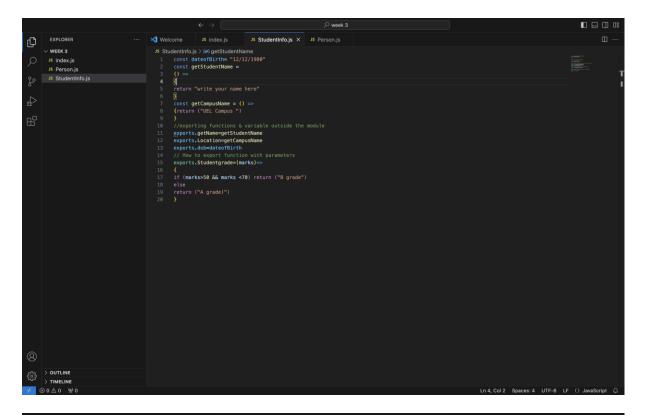


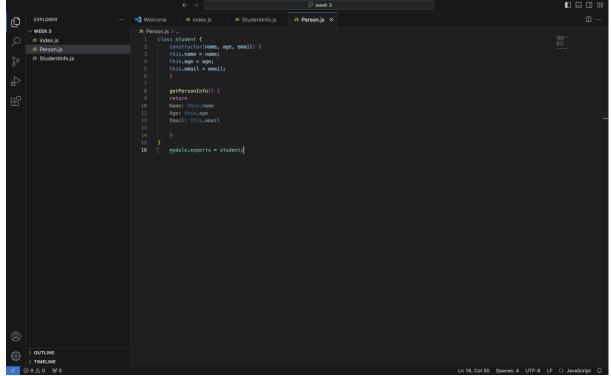
Report:

The work that been done with this code has been used to separate the data that has been given from a spread sheet then sorted into different categories depending on the need.

WEEK 3:

Submit the code for the completed Exercises i.e.: i) Index.js ii) Person.js iii) Employeeinfo.js iv) Exercise 4.js



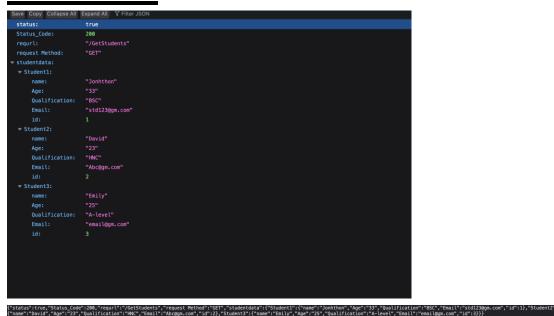


```
| Date |
```

Report:

The coding that I've done during this lesson displays the information of the device that is being used. It also displays the information of the student information that has been given. I learned how to link different methods together.

WEEK 4:



Localhost:5000/GetStudents

name: "Jonhthon"

Age: "33"
Qualification: "BSC"
Email: "std123@gm.com"
id: 1

Localhost:5000/ GetStudentid/1

name: "David"
Age: "23"
Qualification: "HNC"

Email: "Abc@gm.com"

id: 2

Localhost:5000/ GetStudentid/2

name: "Emily"
Age: "25"

Qualification: "A-level"

Email: "email@gm.com"

id: 3

Localhost:5000/ GetStudentid/3

status:	true
Status_Code:	200
requrl:	"/GetStudentid/4"
request Method:	"GET"
▼ studentdata:	
<pre>▼ Student1:</pre>	
name:	"Jonhthon"
Age:	"33"
Qualification:	"BSC"
Email:	"std123@gm.com"
id:	1
▼ Student2:	
name:	"David"
Age:	"23"
Qualification:	"HNC"
Email:	"Abc@gm.com"
id:	2
▼ Student3:	
name:	"Emily"
Age:	"25"
Qualification:	"A-level"
Email:	"email@gm.com"
id:	3

Localhost:5000/

GetStudentid/4

Student Deta	ails
First Name:	jahmarli
Last Name :	hibbert
Email:	u2283556@uel.ac.uk
Age:	21
Please select your gender:	
 Male Female Other Qualifications GCSE A- level Higher National Certificate/Level 4 ✓ Foundation Degree/HND/DipHE/Level 5 Bachelor Degree/Graduate diploma or Certificate/Level 6 Master Degree/PGCE/Level7 PhD/Level8 	
Submit Query	

status:	true
message:	"form Details"
▼ data:	
name:	"jahmarli hibbert "
age:	"21 Gender: male"
Qualification:	" QualificationHND"

{"status":true,"message":"form Details","data":{"name":"jahmarli hibbert ","age":" Gender: male","Qualification":" QualificationHND"}}

Report:

This week I learnt how to implement data that has been provided and display it in a format that separates the data into different categories. The data has also been displayed in different formats.

WEEK 5:

4

For todays Lab submission, After you complete the lab write down a word document answering following questions for your portfolio:

- What is React
 React is a JavaScript library for building a user interface.
- 2. What do you understand by React component and what command do you use to

create a React component with or without property
A React Component is a piece of UI logic that uses HTML, CSS, and
JavaScript code to represent a part of the user interface.
without

```
function MyComponent() {
   return <h1>Hello, World!</h1>;
}

with

function MyComponent(props) {
   return <h1>{props.heading}</h1>;
}
```

3. What command will you use to render the the newly created component named as myREACT

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import MyREACT from './MyREACT';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(<MyREACT />);
```

4. Suppose the MyReact Component has a property heading, write down the code that could be used to render the MYReact Component, and pass the message to the property heading as "this is my first element"

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import MyReact from './MyReact';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(<MyReact heading="This is my first element" />);
```

5. Observe this code and answer the questions below <AppColor heading="This is first element" lbl ="Name :" color="green"/> What is the name of the React Component AppColor How many properties this component uses

heading, lbl, and color.6. Look at the following Code: function GreetingElementwithProp(props) {

```
return (
<div className="App">
<h1>Wellcome , {props.studentname}</h1>;
</div>
);
}
export default ??????
```

what will you write to make this export this function correctly? Hint you need to replace ?????? with the correct word.

Add a function that takes two properties as numbers ,add these numbers on the click event of the button and display the sum.

Hint you will be using in jsx <button value={props.color} onClick={Namdofyourfunction}

```
import React, { useState } from 'react';
function GreetingElementwithProp(props) {
  const [sum, setSum] = useState(null); // State to store the sum
  // Function to add num1 and num2
  const handleAddition = () => {
   const result = props.num1 + props.num2;
   setSum(result); // Update the sum state
 };
 return (
   <div className="App">
      <h1>Welcome, {props.studentname}</h1>
     <button value={props.color} onClick={handleAddition}>
       Add Numbers
     </button>
     {sum !== null && The sum is: {sum}}
   </div>
 );
}
export default GreetingElementwithProp;
```

Week 7:

Write one page reflective what did you learn about React Hook API during this week Q2. Study the code in EmojeeCounters.js, Please note, You Do not need to submit the full

code rather you need to answer the following questions for your this week portfolio

- What is Name of the Component you have created in EmojeeCounters.js
 EmojeeCounter
- Identify the line of code that uses the EmojeeCounter in index.js import EmojeeCounter from './ EmojiCounter';
- Declares the states of each of the html elements defined in the EmojeeCounters.js (
 identify these lines and explain only those lines)
 const [count, setCount] = useState(0);
- Lines of codes that are used to associate the event handler used.
 button onClick={ClickHandle}>{count }

 Explain the line: <EmojeeCounter pic='Love'/>, what is pic='Love' means in this line

This means that the component can access the image called 'love'.

- What is useEffect and why you think we have used it in the Component. It can be used for tasks like data fetching.
- Explain these line of the codes in functional component EmojeeCounter.js: return (

```
<div className="App">
{props.pic} <span></span>
<button onClick={ClickHandle}>{count }
<img src={pic} alt=""/>
</button>

</div>
)
}
```

{props.pic}: Shows the picture prop that was supplied to the component.

This button's onClick={ClickHandle}>{count}: A button element that, when clicked, launches the ClickHandle function and displays the current count.

: Shows an image in which the source is the pic state or prop

Q3

Create a code for a Component that takes two HTML one text box and one label. Label will

be used to display the images. So it should be like this

If I write "Happy" in the text box the label should show happy face (You can use any image)

If I write "Like" in the text box the label should show Like icon

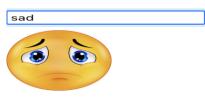
If I write "sad " the label should show sad emoji.

Run this component take the screen shot of your newly run component and write a paragraph how did you develop this component.

Emoji Display App



Emoji Display App



Emoji Display App





Using React and useState to control the input text state, I created the EmojiDisplayComponent. To enable fast lookup, I made an imageMap object that links particular words ("happy," "like," and "sad") to image URLs. When the user types, the component updates the state and shows the matching image if the input contains a keyword.