Backend

Q1.

save and insert are very similar, especially if no \_id value is passed. However, if an \_id key is passed, save() will update the document, while insert() will throw a duplicate key error.

Q2.

function(req, res){

var timestamps = moment().format('HH:mm:ss')

console.log(timestamps + ' From routes/index.js')

}

Q3.

const findCar = () => {

// body of the function

}

const createCar = () => {

// body of the function

}

The above function can be used in another javascript file using "import keyword".

eg: import \* from cars

JavaScript

Q1.

syntax for creatig object with dynamic keys:

var obj = {

[myKey]: value,

}

Q2.

function multiplyBy5(number) {

return number \* 5;

}

Pure function - The above function will always return the same result, if we pass the same number. In other words, it’s output doesn’t get effected by any other values / state changes. So we can call “multiplyBy5” function as a Pure function.

Q3.

# first part

function a() {

const random = Math.random();

if (random < 0.5) {

var b = 1;

b = b + 1;

} else {

var b = 2;

b = b + 1;

}

console.log(b);

}

a();

Above program will run without errors

# second part

function a() {

const random = Math.random();

if (random < 0.5) {

let b = 1;

b = b + 1;

} else {

let b = 2;

b = b + 1;

}

console.log(b);

}

a();

Above program will give error as "let" is a keyword that is used to declare a block scoped variable.

Frontend

1. What is the difference between the below snippets?

const [state, setState] = useState(0);

setState((state) => state + 1);

const [state, setState] = useState(0);

setState(state + 1);

Arrow function are way easier to write and to read then a method with a bind call inside a constructor.

1. What will be the output if you run this code?

import React from "react";

class App extends React.Component {

constructor(props) {

super(props);

this.state = { value: 1 };

}

showValue() {

console.log(this.state.value);

}

render() {

return <button onClick={this.showValue}>Click</button>;

}

}

export default App;

SYNTAX ERROR

1. What would be the output for this snippet?

import React from "react";

import Child from "./components/Child";

function App() {

return <Child value={2} />;

}

export default App;

import React from "react";

function Child(props) {

props.value = 5;

return <p>{props.value}</p>;

}

export default Child;

**SYNTAX ERROR**