**Take-Away Assessment**

1. Rewrite this React class Based component into a react functional component

import React from 'react'

export default const Post {

const [ posts, setPosts] = React.useState([])

const [id, setId] = React.useState(‘2’)

React.useEffect(()=>{

if (id) {

fetchPost()

}  
 }, [id]);

async fetchPost (){

const response= await fetch(`https://jsonplaceholder.typicode.com/comments?postId=${id}`)

const data= await response.json();

setPosts(data);

}

return (

<div>

<input type="text" value={this.state.id}

onChange={(e)=>this.setState({id:e.target.value})} />

<p>{JSON.stringify(this.state.posts)}</p>

<input type=”text” value={id} onChange={(e) => setId(e.target.value)}/>

<p>{JSON.stringify(posts)}</p>

</div>

)

}

1. Name two hooks that help in optimizing performance of a react app explain how they help in improving performance. Write code to prove this.

* *useMemo*
* *useCallback*

1. Why did we move from Context API to Redux?

*Due to Provider hell cases, this is the nesting of context of every state in a component thus redux fixed this by using only one provider for that makes the store(states) global*.

1. Why Did we move from react-redux to Redux Toolkit

*It is simple to setup store, create reducers and write immutable state logic. Also, it is effective as one can do more work with less code that’s is* *Less boilerplate code to manage store*

1. **JavaScript**

Using a Prompt allow user to enter numbers separated by commas the printout the sum of the numbers

1. Explain this code what it logs and why?

Text

Description automatically generated

*Reason: -*

*Primitive data type e.g. string and reference data type e.g. arrays*

1. **PALINDROME –A palindrome is a word, number, phrase, or other sequence of characters which reads the same backward as forward**  
   Write a program that checks whether a word or a phrase is a palindrome or not.  
   Examples of a palindromes  
   (race car)

Const Checkpalindrome = (M) => {

//change to string

//Reverse the string

//check if the reversed string is equal to the original string

return M.toString() === M.toString().split(“”).reverse().join(“”) ? true: false;

}

Checkpalindrome(“race car”)

1. **General Question**

How would you implement a Login functionality that only logs in users saved in the database? (Explain no code)