JavaScript

Question: What is typeof operator??

Answer: A typeof operator is used in javascript to check a variables datatype

TypeScript

Question: List the built in types in typescript

Answer: The built in types in typescript are: number, string, undefined, Boolean and null.

HTML5

Question: Explain meta tags in html

Answer:

* **Meta tags** always go inside **head tag** of the HTML page
* **Meta tags** is always passed as name/value pairs
* **Meta tags** are not displayed on the page but intended for the browser
* **Meta tags** can contain information about **character encoding**, **description**, **title** of the

CSS

Question: What is CSS?

Answer: **CSS** stands for **Cascading Style Sheets**. CSS is used to define styles for your web pages, including the design, layout and variations in display for different devices and screen sizes

React

Question: What are the major features of react js??

Answer:

1. **Component-Based** – Build UIs using reusable components (classes or functions).
2. **Virtual DOM** – Improves performance by minimizing direct DOM updates.
3. **JSX** – Write HTML-like syntax inside JavaScript.
4. **One-Way Data Flow** – Data passes from parent to child via **props**.
5. **State & Hooks** – Manage dynamic data with useState, useEffect, etc.
6. **React Router** – Enables navigation in single-page apps (SPAs).
7. **Context API** – Share global data without prop drilling.
8. **Optimized Performance** – React.memo, useMemo, and useCallback reduce re-renders.
9. **Server-Side Rendering (SSR)** – Supported via frameworks like **Next.js**.
10. **React Native** – Build mobile apps using React

React-hooks

Question: What are the advantages of using react hooks?

Answer:

✅ **Simpler Code** – No classes, this, or lifecycle methods. Just functions!  
✅ **Reusable Logic** – Share stateful logic across components with **custom Hooks**.  
✅ **Better State Management** – useState, useReducer, and useContext replace Redux in many cases.  
✅ **Easier Side Effects** – useEffect handles API calls, subscriptions, and cleanup in one place.  
✅ **Performance Boosts** – useMemo and useCallback optimize renders.  
✅ **Modern & Future-Proof** – React recommends Hooks for new projects

OOP

Question: What is OOP?

Answer:

**OOP (Object-Oriented Programming)** is a programming paradigm that organizes code into **"objects"**—self-contained units containing **data (attributes)** and **behavior (methods)**. It helps structure complex software by modeling real-world entities.

Redux

Question: What is redux??

Answer:

**Redux** is a **predictable state management library** for JavaScript apps (commonly used with React). It helps manage **global application state** in a centralized store, making state changes transparent and easier to debug.

Git

Question: What is the git command to write a commit message?

Answer: git commit -m "Your commit message here"

Web Security

Question: What is vulnerability?

Answer:

The **Vulnerability** can be defined as weakness of any system through which intruders or bugs can attack on the system.

Unit Testing

Question: What is the difference between unit test and functional tests?

* Answer: **Unit Test** - testing an individual unit, such as a method (function) in a class, with all dependencies mocked up.
* **Functional Test** - AKA Integration Test, testing a slice of functionality in a system. This will test many methods and may interact with dependencies like Databases or Web Services.

Agile and Scrum

Question: What is refactoring?

Answer:

* To **improve the performance or readability**, the existing code is modified; this is re-factoring.
* During re-factoring the **code functionality remains same**.