**HTML/CSS**

* What are block elements?

-A Block element always takes up the full width and has a top and bottom margin.

* What were the new tags/elements brought in HTML5?

-Elements Article, Audio, Video, footer, header,

-Tags color, date, email, month, number, search

* Have you used PreCSS? What is it?

- No, I haven’t used it yet. PreCSS lets us use Sass-like markup and staged CSS

features in CSS

* What is the difference between Margin and padding?

- padding is the space between the content and the border, whereas margin is the space outside the border.

* Is padding included in the element?

- yes

* What types of selectors are used in CSS?

- Type, class, and id selectors , Attribute, Pseudo-classes and pseudo-elements

And combinators

* What are the available values for property "position"? What happens when you use each value?

- Static

The element is positioned according to the normal flow of the document.

- relativ

The element is positioned according to the normal flow of the document, and then offset *relative to itself* based on the values of top, right, bottom, and left.

* How can I show two div tag elements side by side?

- There are 3 ways in which we can show two div side by side

1. Float
2. Flexbox
3. Grid

* Explain the term responsive web design?
* Responsive Web Design mean that user can render our website on a different variety of devices and screen sizes by automatically adapting to the screen.
* What is css flexbox?

- flexbox layout allows us to easily format HTML, flexbox makes it simple to align items

Vertically and horizontally using rows and columns.

* What is CSS opacity?

-The opacity CSS property sets the opacity of an element. Opacity is the degree to which

content behind an element is hidden, and is the opposite of transparency

* When click on button u need to scroll to the particular div using HTML

-Using Scroll to method

* What is specificity in CSS ?

- Specificity is the means by which browsers decide which CSS property values are the most relevant to an element, therefore, will be applied.

* What is FlexBox?

- Flexbox is one-dimensional layout system that we can use to create a row or a column axis layout

* Pseudo classes and elements

-Pseudo-classes select regular elements but under certain conditions, like when their position relative to siblings or when they’re under a particular state.

Dynamic pseudo-classes

* :link, :visiter, :hover, :active, :focus,

### UI element states pseudo-classes

* :enabled, :disabled, :checked

### Structural pseudo-classes

* :first-child, :nth-child(n), :nth-last-child(n), :nth-of-type(n), :nth-last-of-type(n), :last-child, :first-of-type ,:last-of-type ,:only-child, :only-of-type ,:root ,:empty

### Other pseudo-classes

* :not(x), :target, :lang(language)

## JavaScript

* Difference between null and undefined?
* What are promises ?
* What is Async await?
* Javascript is single threaded or multiple threaded and asynchronous or synchronous?
* How to center the div tag on dom?
* What are callback functions?
* What is Closure how do we implement closure?
* What is Debouncing and throttling ?
* Prototype in javascript with example.
* Event loop.
* What is the use of filter, map, reduce ?
* Difference between map and for loop
* Difference between slice and splice
* Difference between Standard function and Arrow Function
* Difference between == and ===
* What is ES6?
* Oops concept
* How can you achieve a class feature before ES6?
* Tell me about Promises?
* Difference between normal function and an Arrow function scope wise?

## 

## React Js

* What is React Js
* Advantages of React
* How does React Js virtual Dom work ?
* What is the state?
* Difference between state and prop.
* What is the use of refs?
* How to change state?
* What are higher order components?
* How can you update the state from the child component?
* What is the Error boundary? Why use it and how?
* What is component and types of components
* Explain about lifecycle methods
* What is Pure component and which lifecycle method do we use for pure component
* Explain React router concepts
* How do you programmatically  navigate to other page?
* How is React Single Page Application explain with an example.
* What is redux & what are the redux principal
* Explain in detail about different components of redux?
* How do we mimic lifecycle methods in hooks
* How many states promise to have after resolution?
* What are Hooks?
* How to use rest api in React JS
* Tell me a feature that is not available in functional component yet (Note: which is available in class component)
* Explain about useSelector, useDispatch.
* Local storage and Session Storage
* How to stop Rendering
* Set time out/Set interval
* What is Hoisting?
* How to fetch api?
* What is AWS
* How to run bootstrap ?
* What is server side rendering In React?
* life cycle methods of React Component.
* What are the three principles of Redux ?
* what is Props drilling

## Problem Solving:

* Find the second Highest element from the array const arr = [12, 35, 1, 10, 34, 1]
* Program to find out prime numbers in a given array.
* Write a function which takes an array and returns the sum of max, min values in that array, finally attach this to a prototype object.
* Problem:

arr=[1,7,-6,15,7,9,0,2,-3]

Seq=[7,15,-3]

Return true if the sequence is present in array in the same order else return false

* Create a counter with increment and decrement in react.
* Create a form using react and show data on screen in a list.
* Write a program to find the sum of two arrays
* Write a program for addition of each index of two array
* Arrange the number into descending order

**Algo and DS**

* Types of sorting technique(selection sort,merge sort,quick sort,Radix sort) explain any one
* Bubble sort algorithm code
* Binary search algorithm
* How can I detect a linked list that is circular?
* What is binary search?

**General Questions:**

* What challenges do you face in your project and how do you solve it

NODE:-

[NodeJS important questions](https://digikull-my.sharepoint.com/personal/abhi_digikull_com/Documents/Microsoft%20Teams%20Chat%20Files/Node%20JS%20important%20questions.pdf)