Interview Preparation

1. Interview 1

Question 1.1: what will be the output of the following code ?

```
const a = { val1: 1, val2: 2 }
b = a
delete b['val1']

console.log(a)
console.log(b)
```

Question 1.2: What will be the output of the following code ?

```
const abc = async () => {
setTimeout(() => {
for (let i = 0; i < 4; i++) {
console.log(4)
}
}, 1000)
}

abc()
```

Question 1.3: What will be the output of the following code ? What can you do for the output 0, 1, 2, 3 ?

```
const abc = async () => {
setTimeout(() => {
for (let i = 0; i < 4; i++) {
console.log(4)
}
}, 1000)
}

abc()
```

Question 1.4: Make changes in the below code to print 'Hello World'

```
function test() {
setTimeout(() => {
console.log('Hello')
}, 1000)
console.log('World')
}

test()
```

Question 1.5: What is the HTTP status code for unauthorized access ?

Question 1.6 : How you can handle error without try catch block ?

Question 1.7 : What are the difficulties in Socket io ?

Question 1.8 : How you can deal with large files in node js ?

Question 1.9 : What is the difference between PUT vs PATCH ?

Question 1.10 : Node js is a single threaded. How we can handle multiple request at the same time ? How to make Node js Multi threaded ?

Question 1.11 : Difference between fork & spawn ?

Question 1.12 : Why next() is used in middleware ? Explain in details about middlware ?

Question 1.13 : How to write test case for database insertion query in node js using Mocha and Chai ?

2. Interview 2

Question 2.1 : What is Debouncing & Throatling ?

Question 2.2 : What is event Bubbling ?

Question 2.3 : What is callback ?

Question 2.4 : What is Prototyping in Js ?

Question 2.5 : Write a sample cronjob in node js ? What are the packages
used for Cron job ?

Question 2.6 : How to make Js applicaiton secure ?

Question 2.7 : How to optimize application ?

Question 2.8 : Event Loop in node js & its Phases ?

Question 2.9 : What are the hoooks and why is it useful in React ?

Question 2.10 : What is hoisting in js ?

Question 2.11 : What is Closure? Why it is introduced in js ? Give Example ?

3. Interview 3

Question 3.1 : Optimize Applicaiton at 3 levels. Database, Sever, Client ?

Question 3.2 : What is hoisting in Js ?

Question 3.3 : What is closure ?

Question 3.4 : How to handle error without catch block ?

Question 3.5 : What is the difference between let, const and var keyword ? Tell me about their scope ? In which keyword hoisting is possible ?

Question 3.6 : What is the use of createReactElement(). Write a sample code for it ?

Question 3.7 : Lifecycle methods in React ?

Question 3.8 : How react converts JSX into HTML ?

Question 3.9 : Difference between sessionStorage and localStorage ?

Question 3.10 : What is Middleware and its uses ?

Question 3.11 : What are authentication methods ?
            OAUTH , JWT, Basic Auth. Explain in detail ?

Question 3.12 : Design principles ?

Question 3.13 : What are the advantages of Lambda ?

Question 3.14 : In the below code how you can update only phone number without impacting other state values ?

```
const YourComponent = () => {
const [data, setData] = useState({ name: '', phone: '', email:
'' });

const onButtonClick = (phone) => {
    // Your Code here
}));
}

return (
    <button onClick={() => onButtonClick('1234567890')}>
            Update Phone
    </button>
    );
}
```

```
export default YourComponent;
```
Question 3.15 : How to handle error without catch block ?

Question 3.16 : Fetch data from below API using promise ? What is promise in
                  detail ? What is the use of resolve & reject keyword ?

```
https://jsonplaceholder.typicode.com/posts
```

Question 3.17 : Optimize applicaiton at 3 levels ?

Question 3.18 : What is the output of the below code ?

```
const obj = {a : 2}
obj.a = 33s side effects or behav
console.log(obj)
```

Question 3.19 : Design strategies follow in coding ?

Question 3.20 : What are the microTask And macroTask ?

Question 3.21 : What is Arrow function ? Why it is introduced in ES6 ?

Question 3.22 : How to create Node Js Multithreaded ?

Question 3.23 : What is Debouncing & Throatling in React ?

Question 3.24 : What is Global object in node js ?

Question 3.25 : What us prototype in Js ?

Question 3.26 : What is buffer in Js ? Explain in details ?

Question 4.1 : What is event loop ?

Question 4.2 : Explain Microservice Architecture ?

Question 4.3 : How Microservices Communicate with each other ?
            Explain Acrive MQ

Question 4.4 : SQL => Join, ACID, Primary & Unique Key Difference.
                SQL Optimization technique.
                What is difference between storage engine
                MyASSAM & Maria DB

Question 4.5 : Date Types

Question 4.6 : Create Server in express Js and create one POST request route
            for it to accept data and send it to frontend using status code 200.

Question 4.7 : Explain node js Asynchronous behaviour ?

Second Round :

Question 4.8 : What are SOLID principles ?

Question 4.9 : What is Rollback in database ?

Question 4.10 : How to make Application secure at 3 levels ?

Question 4.11 : Design Pattern : Ex. MVC, Singleton

Question 4.1 : What is foreign key ? What is CASCADE ?

5. Interview 5

Question 5.1 : What is event loop ?

Question 5.2 : Explain Microservice Architecture ?

Question 5.3 : What is Pure & Impure function ?

Question 5.4 : What is first order function & higher order function ?

Question 5.5 : Delete age from the below object

```
const test = {
name: 'Ashok',
age : 35
}
```

Question 5.6 : What will be the output of the following code ?

```
console.log(eval('1 + 2'))
```

Question 5.7 : What will be the output of the following code ?

```
console.log(isFinite(100))
```

Question 5.8 : What will be the output of the following code ?

```
console.log(isNaN('100'))
```