**What is the event loop in NodeJS ?**

* The event loop allows Node. js to perform non-blocking I/O operations despite the fact that JavaScript is single-threaded

**How Callbacks Work in Node.js**

* Node.js callbacks are a special type of function passed as an argument to another function.

**JavaScript has 8 Datatypes**

* String.
* Number.
* Bigint.
* Boolean.
* Undefined.
* Null.
* Symbol.
* Object.

**What is callback hell**

* Callback hell in Node. js is the situation in which we have complex nested callbacks.
* In this, each callback takes arguments that have been obtained as a result of previous callbacks

**What is module in node js**

* Module in Node. js is a simple or complex functionality organized in single or multiple JavaScript files which can be reused throughout the Node. js application.

**What is first class function in javascript ?**

* if functions in that language are treated like other variables

**How to handle error in nodejs**

* Error object
* Try…catch
* Throw
* Call stack
* Effective function naming
* Asynchronous paradigms like promise

**Commonly used the Timing features in nodejs**

* **setTimeOut()**
* **setImmediate() / clearImmediate()**
* **setInterval() / clearInterval()**
* **process.nextTick()**

**what is asynchronous in nodes**

* Most of the time, Node. js functions are non-blocking (asynchronous) by default, and also Asynchronous functions can handle more operations while it waits for IO resources to be ready.

**Simple node js server create**

var http = require('http');

var server = http.createServer(function (req, res){

res.send(“hello world node js”)

});

server.listen(5000, (err)=>{

if(err)throw err;

else

console.log('Node.js web server at port 5000 is running..')

}); //3 - listen for any incoming requests

**Types of API Function in nodejs**

* Asynchronous /non-blocking function –perform the I/O OPERATION
* Synchronous / blocking function

**Why use async and await?**

* Async/Await makes it easier to write promises. The keyword 'async' before a function makes the function return a promise, always. And the keyword await is used inside async functions, which makes the program wait until the Promise resolves.

**What Is Buffer**

* The Buffer class in Node. js is used to perform operations on raw binary data. Generally, Buffer refers to the particular memory location in memory**.**

**What Is Middleware**

* A middleware is basically a function that will the receive the Request and Response objects

**What Is Event Emmiter**

* The EventEmitter class can be used to create and handle custom events module.

**WASI – WEB ASSEMBLY SYSTEM INTERFACE**

**What Is Cluster**

* Clusters of Node. js processes can be used to run multiple instances of Node. js that can distribute workloads among their application threads.