

1. Give a list of advantages of Node.js
 - a. Fast in executing code
 - b. It is open source
 - c. Working with non-blocking concept
 - d. Single-threaded
2. Give an explanation about Synchronous & Asynchronous
 - a. Synchronous is direct communication such as Video Calling and Chatting. The term used in the field of communication or operating systems for an event that occurs at the same time at the same rate, and this event occurs continuously and predictably.
 - b. Asynchronous is communication on a delayed basis, using media such as e-mail, forums, and reading/writing online documents via the World Wide Web.
3. What is a module in Node.js?

Node.js is a lightweight framework. The core modules include minimal Node.js functionality. This core module is compiled into its binary distribution and loaded automatically when the Node.js process starts. But need to import the core module first to use it in the app.
4. Give an explanation about callback

callbacks represent as being called back. With regard to programming in Javascript, the definition of a callback is that the function will be executed immediately after the main function is executed.
5. What are array iterator functions in JavaScript?

Iterators serve to increase efficiency by allowing you to consume the items in the list one by one as if it were a stream. A generator is one whose special function is to be able to stop execution. Implementing a generator allows you to generate data one piece at a time without needing to store it in a list first.
6. What is the differentiation between SQL & NoSQL (at high level)?
 - a. Language

As mentioned earlier that SQL itself refers to a query language, the difference between SQL and NoSQL that can be seen immediately is the query language of each database.
 - b. Application

As has been mentioned several times that SQL is table-based where this database is suitable for applications that require multi-line transactions.
 - c. Scalability

Another thing that distinguishes SQL and NoSQL is in terms of scalability. Almost all SQL databases are vertically scaled.
 - d. Community

From a community perspective, of course SQL has a bigger community than NoSQL because SQL is decades old.

7. What is MongoDB?

MongoDB is a type of NoSQL database that is quite popularly used in website development. Unlike the SQL type database that stores data using table relations, MongoDB uses documents in JSON format.

8. What is index in MongoDB?

MongoDB is a document-based NoSQL database with JSON format. In SQL databases, data is stored in tabular form. While in MongoDB data is stored in the form of documents with JSON format.

9. What is Document & Collection in MongoDB?

In MongoDB, each document stored in a collection requires a unique `_id` field that acts as a primary key. If an inserted document omits the `_id` field, the MongoDB driver automatically generates an `ObjectId` for the `_id` field.

10. What Data Types are supported in MongoDB?

- a. String
- b. Integer
- c. Double
- d. Boolean
- e. Null
- f. Array
- g. Object