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Assignment -3

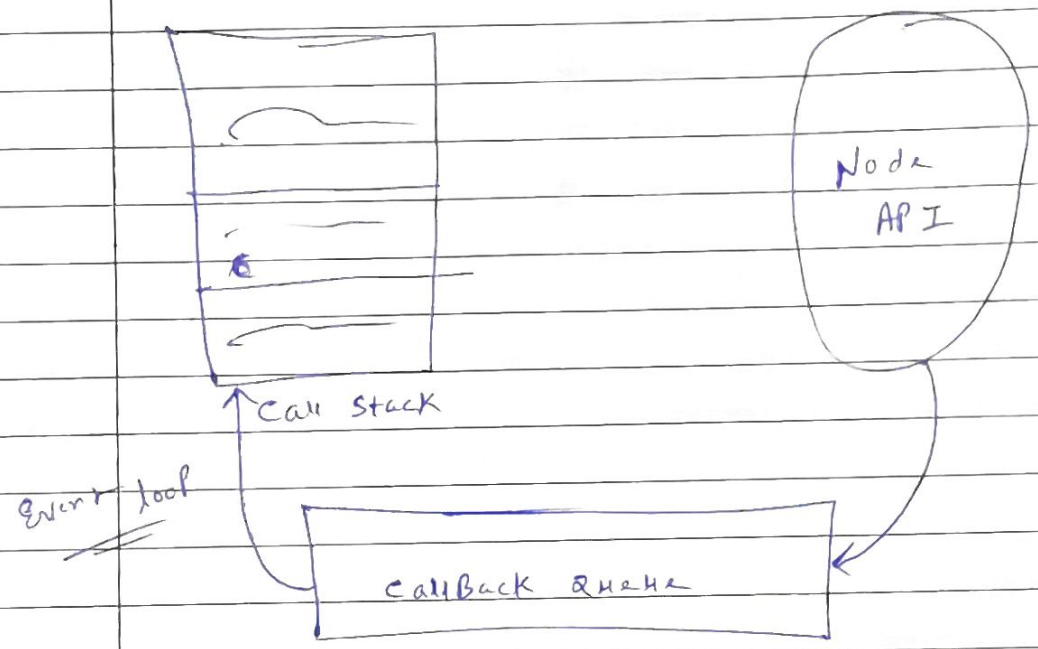
(1) Explaining the architecture of nodejs.

Ans → There are mainly three things in architecture of node.js

(i) Call Stack

(ii) Node API

(iii) CallBack queue



firstly Execute Synchronous type of code Execute Synchronous code go to Call Stack and Execute firstly and then next asynchronous code Execute those code whose less timer go to firstly in queue and then go to call stack this method called Event loop and then Execute asynchronous code.

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Q 3 Explain the feature of nodejs like non-blocking, synchronous, single threaded.

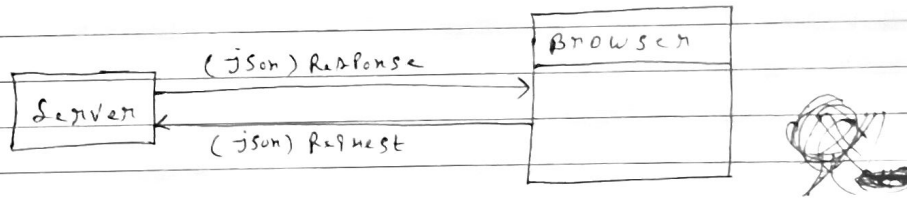
Ans → non blocking: It refers to the Program that does not block the Execution of further operations. non-blocking methods are executed asynchronously. asynchronously means that the Program may not necessarily Execute line by line.

Synchronous → That the code runs in the sequence it is defined. In a synchronous Program, when a function is called and has returned some value, only then will the next line be executed.

Single threaded → Node.js runs Javascript code in a single thread, which means that your code can only do one task at a time.

Q 4 Nowadays how data is transferred between server and client? (Explain about json)

Ans →



Json can be used in web applications for data transfe consider the following block diagram of the simple client - server architecture. Assume that the client is a brow that sends an HTTP request to the server, and the server serves the request and responses as expected this is visualized as in the above diagrams.

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6 Why should we use let in place of var in our javascript programs?

Ans → The let statement is used to declare a local variable in typescript. it is similar to the var keyboard, but it has some restriction in scoping in comparison of the var keyboard. the let keyboard can enhance our code readability and decreases the chance of programming Error.