**JS INTERVIEW QUESTIONS 2**

1. Give an example where call apply bind is required?

Ans. The call, apply, bind methods can be used set the this keyword independent of how a function is called. The bind method creates a copy of the function and sets the this keyword. The call, and apply sets the this keyword and then calls the function immediately.

1. What is the difference between readFile and readFileSync?

Ans. readFileSync are synchronous and blocks execution until finished. They return their results as return values. readFile are asynchronous and return immediately while they function in the background.

1. What does process in node.js mean?

Ans. Process is an instance of event emitter and emits the following events:

*Exit* : Emitted when the process is about to exit. There is no way to prevent the exiting of event loop at this point and once all the exit listeners have finished running the process will exit.

*beforeExit* : This event is emitted when node empties its event loop and there is nothing to schedule. Normally the node exit when there is no work scheduled but the listerner for “beforeExit” can make asynchronous calls and cause the node to continue.

*uncaughtException*: Emitted when exception all the way bubble back to the event loop. If a listener is added for this exception, the default action will not occur.

*Signal events*: Emitted when processes receive a signal such as SIGINT, SIGHUP, etc.

1. Explain what node.js is?

Ans. node.js is runtime environment that is used to run JavaScript outside the browser based on chrome v8 JavaScript engine. It is written in C++ that provides support for asynchronous I/O based events, on event loop or thread loop. It is often used for real time application like chat, news feed.

1. What is the difference of JS from browser to JS on node.js?

Ans. Unlike browser where JavaScript is sandboxed for our safety, node.js has full access to the system like any other native application. It means we can directly read/write from the file system, have unrestricted access to the network, can execute software and more.

1. Write three different ways to reverse a string in Javascript? a. using inbuilt method, b. iteratively, c. recursively?

Ans. var string="anushka"

// inbuilt method

string=string.split("")

console.log(string.reverse().join(""))

// iteratively

function iteratively(string){

    var newString=""

    for(var i=string.length-1;i>=0;i--){

        newString+=string[i]

    }

    return newString

}

// recursively

function reverseString(str) {

    if (str === "")

      return "";

    else

      return reverseString(str.substr(1)) + str.charAt(0);

  }

  console.log(reverseString("hello"));

7.