**What is Node.js?**

Node.js is an open-source , server side , runtime environment built on Chrome's V8 JavaScript engine.

Many of the basic modules of Node.js are written in JavaScript.

Node.js is mostly used to run real-time server applications.

Node.js also provides a rich library of various JavaScript modules to simplify the development of command line application, web application, real-time chat application, REST API server etc.

Node.js = Runtime Environment + JavaScript Library

**What Can Node.js Do?**

Node.js can generate dynamic page content

Node.js can create, open, read, write, delete, and close files on the server

Node.js can add, delete, modify data in your database.

Node.js eliminates the waiting, and simply continues with the next request.

Node.js runs single-threaded, non-blocking, asynchronous programming, which is very memory efficient.

**Require() function:**

We always use the NodeJS require() function to load modules in our projects.

**Create Node.js Web Server**

Node.js makes it easy to create a simple web server that processes incoming requests asynchronously.

The http module is a core module of Node.js

var http = require('http');

// 1 - Import Node.js core module

// 2 - creating server

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

//handle incomming requests here..

}); server.listen(5000);

//3 - listen for any incoming requests

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

call createServer() method of http and specify callback function with request and response parameter.

Finally, call listen() method of server object which was returned from createServer() method with port number, to start listening to incoming requests on port 5000.

we can specify any unused port here.