

Node Examples

Run : node <filename>	
<u>REPL Commands</u> node > 1 + 1 > 10+12 + (5*4)/7 > var name = "Siva" > name > var a =10 > var b =20 > a+b >do { ... x++; ... console.log("x: " + x); ... } while (x < 10); > var os = require('os') > os	 // hello-world.js console.log("Hello World") // console-example.js console.log("Hello %s", Sivaram) console.error(new Error("this is wrong function")) const name = 'siva'; console.warn('Hey \${name}')
 // sync-async-example.js var fs = require("fs"); // Asynchronous read fs.readFile('input.txt', function (err, data) { if (err) { return console.error(err); } console.log("Asynchronous read: " + data.toString()); }); // Synchronous read var data = fs.readFileSync('input.txt'); console.log("Synchronous read: " + data.toString());	

<pre>console.log("Program Ended");</pre>	
<pre>// events-demo.js var events = require('events'); var eventEmitter = new events.EventEmitter(); //Create an event handler: var myEventHandler = function () { console.log('Event handler called'); } //Assign the event handler to an event: eventEmitter.on('myEvent', myEventHandler); //Fire the 'myEvent' event: eventEmitter.emit('myEvent');</pre>	
<pre>// URL-module.js var url = require('url'); var='http://localhost:8080/default.htm?year=2018&month=march'; var q = url.parse(adr, true); console.log(q.host); //returns 'localhost:8080' console.log(q.pathname); //returns '/default.htm' console.log(q.search); //returns '?year=2018&month=march' var qdata = q.query; //returns an object: { year: 2018, month: 'march' } console.log(qdata.month); //returns 'march'</pre>	
<pre>// myModule.js module.exports = { myDateTime: function () { return Date(); } };</pre>	<pre>// module-test.js var dt = require('./myModule'); console.log(dt.myDateTime()); // list-core-modules.js var builtinModules = require('builtin-modules'); console.log(builtinModules);</pre>
<pre>// http-server.js var http = require('http');</pre>	<pre>//http-server2.js var http = require('http');</pre>

<pre>//create a server object: http.createServer(function (req, res) { res.writeHead(200, {'Content-Type': 'text/plain'}); res.write('Hello World!'); //write a response to the client res.end(); //end the response }).listen(8080); //the server object listens on port 8080</pre>	<pre>var server = http.createServer(function(req, res) { res.writeHead(200, {"Content-Type": "text/html"}); res.write('<!DOCTYPE html>'+<html>'+ ' <head>'+<meta charset="utf-8" />'+ ' <title>My Node.js page!</title>'+ ' </head>'+ ' <body>'+<p>Here is a paragraph of HTML!</p>'+ ' </body>'+</html>'); res.end(); }); server.listen(8080);</pre>
<pre>// http-server3.js var http = require('http'); var url = require('url'); var server = http.createServer(function(req, res) { var page = url.parse(req.url).pathname; console.log(page); res.writeHead(200, {"Content-Type": "text/plain"}); if (page == '/') { res.write('You're at the reception desk. How can I help you?'); } else if (page == '/basement') { res.write('You're in the wine cellar. These bottles are mine!'); } else if (page == '/floor/1/bedroom') { res.write('Hey, this is a private area!'); } res.end(); }); server.listen(8080);</pre>	
<pre>// express-server.js var express = require('express'); var app = express(); app.get('/', function (req, res) { res.send('Welcome to Express');</pre>	<pre>// express-server3.js /* Access different urls using express routes http://localhost:5000 : redirects to the index.html page in /public */ var express = require('express'); var app = express();</pre>

<pre> }); app.listen(5000, function () { console.log('app listening on port 5000!'); }); // express-server3.js var express = require('express'); var compression = require('compression'); var app = express(); var year; // gzip the static resources before sending to the browser // verification: Observe the response header Content-Encoding: gzip app.use(compression()); // serving static resources from public by mounting Path '/' // caches static files for a year // verification: // 1. Requesting the page for the first time should have 200 response // 2. Requesting the page for again by doing the refresh (ctrl + R) should have 304 response // 3. Requesting the page again by doing the hard refresh (ctrl + shift + R) should have 200 response year = 1 * 365 * 24 * 60 * 60 * 1000; app.use('/', express.static(__dirname + '/public', {maxAge: year})); // listening port on 5000 app.listen(3000); </pre>	<pre> /* Serving Static files To access static files from public directory Access: http://localhost:5000/img.jpg*/ app.use(express.static(__dirname + '/public')); /*Access:http://localhost:5000/get-form.html */ app.get('/form-get', function (req, res) { // Prepare output in JSON format response = { first_name:req.query.first_name, last_name:req.query.last_name }; console.log(response); res.end(JSON.stringify(response)); }); /*Access:http://localhost:5000/post-form.html */ app.post('/form-post', urlencodedParser, function (req, res) { // Prepare output in JSON format response = { first_name:req.body.first_name, last_name:req.body.last_name }; console.log(response); res.end(JSON.stringify(response)); }); app.listen(5000, function () { console.log('app listening on port 5000!'); }); Note:create public direcotry and create the below files - index.html - get-form.html - post-form.html </pre>
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Thank You

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