

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}') //global.js console.log(__dirname) console.log(__filename) //timer.js function test(){ console.log("welcome"); } Var t1 = setTimeout(test,1000); Var t2 = setInterval(test, 1000); clearTimeout(t1);
// 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());	

```

console.log("Program Ended");

// 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');

```

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// URL-module.js
var url = require('url');
var adr='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'

```

```

// myModule.js
module.exports = {
  myDateTime: function () {
    return Date();
  }
};

```

```

// module-test.js
var dt = require('./myModule');

console.log(dt.myDateTime());

// list-core-modules.js
var builtinModules = require('builtin-modules');

console.log(builtinModules);

```

```

// http-server.js
var http = require('http');

```

```

//http-server2.js
var http = require('http');

```

```

//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

```

```

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
<strong>HTML</strong>!</p>' +
'</body>'</html>');
res.end();
});
server.listen(8080);

```

```

// 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);

```

```

// express-server.js
var express = require('express');
var app = express();

app.get('/', function (req, res) {
  res.send('Welcome to Express');
}

```

```

// 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();

```

```

});
```

```

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);
```

```

/* 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

	- img.jpg
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Thank You

Sivaram.N |  sivaram.nyayapati@gmail.com |  9248321987 |  <https://sivaram143.github.io>