**Exercise01\_01\_01 – Step 1**

sync-demo.js

var fs = require('fs');

var data = fs.readdirsync('c:/');

console.log('data: ', data);

console.log("This code is last");

**Exercise01\_01\_01 – Step 2**

async-demo.js

var fs = require('fs');

function phoneNumber(err, data) {

console.log('data: ', data)

}

fs.readdir('c:/', phoneNumber);

console.log("This code is last");

**Exercise01\_01\_01 – Step 3**

async-demo2.js

var fs = require('fs');

fs.readdir('c:/', function(err, data) {

console.log('data: ', data)

});

console.log("This code is still last");

**Exercise01\_01\_01 – Step 4**

my-module.js

exports.myText = 'Hello from my-module!';

------------------------------------

module-demo.js

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

------------------------------------

module-demo.js

console.log('Text from the external module: ', myModule.myText);

**Exercise01\_01\_01 – Step 5**

terminal

npm install gulp

------------------------------------

gulpfile.js

var gulp = require('gulp');

------------------------------------

gulpfile.js

gulp.task('default', function() {

console.log('Hello from gulp!');

});

------------------------------------

terminal

npm install gulp -g

**Exercise01\_01\_01 – Step 6**

terminal

npm init

**Exercise01\_01\_01 – Step 7**

read-demo.js

var fs = require('fs');

------------------------------------

data.json

{

"name": "John"

}

------------------------------------

read-demo.js

fs.readFile('./data.json', function(err, data) {

console.log(data);

});

------------------------------------

read-demo.js

fs.readFile('./data.json', 'utf-8', function(err, data) {

console.log(data);

});

------------------------------------

read-demo.js

console.log(data);

console.log(data.name);

------------------------------------

read-demo.js

console.log(data);

data = JSON.parse(data);

console.log(data.name);

------------------------------------

read-demo2.js

var data = require('./data1.json');

console.log(data.name);

**Exercise01\_01\_01 – Step 8**

read-directory-demo.js

var fs = require('fs');

fs.readdir('c:/', function(err, data) {

console.log(data);

});

**Exercise01\_01\_01 – Step 9**

write-file-demo.js

var fs = require('fs');

------------------------------------

write-file-demo.js

var jsonString = { name: 'Mark'};

fs.writeFile('data2.json', jsonString, function(err) {

if (err) {

console.log(err);

}

});

------------------------------------

write-file-demo.js

var jsonString = '{ "name": "Mark"}';

------------------------------------

write-file-demo.js

//var jsonString = '{ "name": "Mark"}';

var jsonString = {

name: 'Mark'

};

fs.writeFile('data2.json', JSON.stringify(jsonString), function(err) {

if (err) {

console.log(err);

}

});

**Exercise01\_01\_01 – Step 10**

terminal

npm install express –g

npm install express -save

------------------------------------

express-static-demo.js

var express = require('express');

------------------------------------

express-static-demo.js

var express = require('express');

var app = express();

------------------------------------

express-static-demo.js

var app = express();

var port = 8080;

app.listen(port, function() {

console.log('Server listening on localhost:%s', port);

});

------------------------------------

index.html

<!doctype html>

<html>

<head>

<title>Express Test</title>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

</head>

<body>

<h2>Serving static content with ExpressJS</h2>

</body>

</html>

------------------------------------

express-static-demo.js

var port = 8080;

app.use(express.static(\_\_dirname));

**Exercise01\_01\_01 – Step 11**

express-endpoint-demo.js

var express = require('express');

var app = express();

var port = 8080;

app.listen(port, function() {

console.log('Server listening on localhost:%s', port);

});

------------------------------------

express-endpoint-demo.js

app.use('/message', function(req, res) {

console.log('User requested an endpoint!');

});

------------------------------------

express-endpoint-demo.js

console.log('User requested an endpoint!');

res.send('<h2>Hello from the server endpoint!</h2>');

------------------------------------

express-endpoint-demo.js

app.use('/users', function(req, res) {

});

------------------------------------

express-endpoint-demo.js

var app = express();

var fs = require('fs');

var port = 8080;

------------------------------------

express-endpoint-demo.js

app.use('/users', function(req, res) {

fs.readFile('./data1.json', 'utf-8', function(err, data) {

res.send(data);

});

});