# Department of Computing

**CS-213: Advanced Programming**

**Class: BSCS 7AB**

# Lab 4: Introduction to Node.js

**Date: 26rd September, 2019**

**Time: 10:00-01:00pm & 02:00-05:00pm**

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# Lab 4: Introduction to Node.js

**Objectives**

This lab will get you familiar with the node.js environment.

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| Solution |
| Task 1:  Done  Task 2:  Code:  var http = require('http');  http.createServer(function (req, res) {  res.writeHead(200, {'Content-Type': 'text/html'});  res.end("Hello, World!");  }).listen(8080);    Task 3:  Code:  exports.myDateTime = function () {  return Date();};  Task 4:  Code:  var http = require('http');  http.createServer(function (req, res) {  res.writeHead(200, {'Content-Type': 'text/html'});  res.write("The date and time are currently: " + dt.myDateTime());  res.end();  }).listen(8080);    Task 5:  Code:  var http = require('http');  //create a server object:  http.createServer(function (req, res) {  res.write('Hello World!'); //write a response to the client  res.end(); //end the response  }).listen(8080);    Task 6:  var http = require('http');  http.createServer(function (req, res) {    res.writeHead(200, {'Content-Type': 'text/html'});    res.end();  }).listen(8080);    Task 7:  var http = require('http');  var fs = require('fs');  http.createServer(function (req, res) {    fs.readFile('f1.html', function(err, data) {  res.writeHead(200, {'Content-Type': 'text/html'});      res.write(data);      res.end();  });  }).listen(8080);  Html file:  <html>  <body>  <h1>My Header</h1>  <p>My paragraph.</p>  </body>  </html>    Task 8:   * appendFile() method   var fs = require('fs');  fs.appendFile('mynewfile1.txt', 'Hello content!', function (err) {  if (err) throw err;  console.log('Saved!');  });     * open() method   var fs = require('fs');  fs.open('mynewfile2.txt', 'w', function (err, file) {  if (err) throw err;  console.log('Saved!');  });     * writeFile() method`   var fs = require('fs');  fs.writeFile('mynewfile3.txt', 'Hello content!', function (err) {  if (err) throw err;  console.log('Saved!');  });    Task 9:  var fs = require('fs');  fs.appendFile('mynewfile1.txt', ' This is my text.', function (err) {   if (err) throw err;   console.log('Updated!'); });    Task 10:  var fs = require('fs');  //Replace the file with a new one:  fs.writeFile('mynewfile3.txt', 'This is my text.', function (err) {  if (err) throw err;  console.log('Replaced!');  });    Task11:  var fs = require('fs');  fs.unlink('mynewfile2.txt', function (err) {  if (err) throw err;  console.log('File deleted!');  });    Task 12:  var fs = require('fs');  fs.rename('mynewfile1.txt', 'myrenamedfile.txt', function (err) {  if (err) throw err;  console.log('File Renamed!');  }); |