Nodejs examples

Hello world

- Printing loop

```
for(var i=0;i<=5; i++){
    console.log('hello to nodejs');
}
```

- Using modules

```
var PI = Math.PI;

exports.area = function (r) {
  return PI * r * r;
};

exports.circumference = function (r) {
  return 2 * PI * r;
};
```

```
var circle = require('./circle.js');
var area = circle.area(4);
console.log( 'The area of a circle of radius 4 is '+ area);
```

Reading/ Writing data on file

- Writing

```
var fs = require('fs');

var data = 'Hello World!';

fs.writeFile('test.txt', data, function (err) {
  if (err)
    return console.log(err);

  console.log('Hello World > test.txt');
});
console.log('testing');
```

- Reading

```
var fs = require('fs');
fs.readFile('test.txt', 'utf8', function (err,data) {
  if (err) {
    return console.log(err);
  }
  console.log(data);
});
```

Create hello world server

```
1  var http = require("http");
2
3  var srvr = http.createServer(function (request, response) {
4      //console.log(request);
5      response.writeHead(200, {'Content-Type': 'text/plain'});
6      response.end('Hello World\n');
7
8  });
9
0  srvr.listen(8081);
1
2  console.log('Server running at http://127.0.0.1:8081/');
```

Connect with mysql

```
//npm install mysql

var mysql       = require('mysql');
 var connection = mysql.createConnection({
  host     : 'localhost',
  user     : 'root',
  password : 'root',
  database : 'test'
});
    connection.query('SELECT * from student', function(err, rows, fields) {
      if (!err){
            console.log('The solution is: ', rows);
            console.log('length:' + rows.length);

          for(var i=0;i<rows.length;i++){
              var row = rows[i];
              console.log(row.id + "," + row.name + "," + row.city + "," + row.age)
          }
      }
      else
        console.log('Error while performing Query.');
});//end of query
    connection.end();
```