LAB 2

1. **Create a simple Node script that converts 'www.mim.edu' domain name to the equivalent IP address. (Search and learn 'dns' module, resolve4)**

```
const dns = require('dns');

dns.resolve4('www.miu.edu', function (error, address) {

if (error) console.log(error);

            console.log(address);

});
```

2. **Create a web server that's going to send a response of big image (bigger then 3MB) to any client that sends a request to your specified server:port. Use the best way for performance. (Try to solve this in many different ways and inspect the loading time in the browser and send many requests to see the performance differences)**

```
const http = require('http');

const fs = require('fs');

const server = http.createServer();


server.on('request', function (req, res) {

        res.writeHead(200, { 'Content-Type': 'image/jpeg' });

        let image = fs.readFileSync('./tiles.jpg');

        res.end(image, 'binary');

});
server.listen(8080);
```

3. **Using Node Stream API, create a script to unzip a file (after you zip it). (Use zlib.createGunzip() stream)**

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

var zlib = require('zlib');

fs.createReadStream('./input.txt.gz')

.pipe(zlib.createGunzip())

.pipe(fs.createWriteStream('./input.txt'));

console.log("File Decompressed.");
```