**Homework -1**

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

**Answer**

const dns = require("dns");

const { promisify } = require("util");

const url = "www.mum.edu";

const promise = promisify(dns.resolve4);

async function hostToIpAddress() {

  await promise(url).then(ip =>

    console.log(`The IP address of ${url} is ${ip}`)

  );

}

hostToIpAddress();

**Homework -2**

**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)

**Answer**

**Homework -3**

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

**Answer**

**1.** SetTimeout is simply like calling the function after delayed has finished.Whenever the function is called it is not

executed immediately but queued so that its is executed after all the executing and currently queued eventhandlers finished

first but setImmediate is similar except it doesn't use queue of the functions.We use setImmediate if we want to queue the function

behind whatever I/O event callbacks that are already in the event queue and will schedule a callback to run at check phase of the event loop after IO events' callbacks.

**2.** The main difference between setImmediate and process.nextTick is that setImmediate queues its callbacks on the event loop while

process.nextTick doesn't.

**3.**

* Require
* Module
* Exports
* setInterval
* Buffer
* clearInterval
* setTimeout
* clearTimeout
* global