

SSN College of Engineering,
Kalavakkam Department of Computer
Science and Engineering VI Semester
- CSE 'C'
UCS1611 INTERNET PROGRAMMING LAB

Exercise 8: Programs Using Node.js

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Learning Objective:

a. Write a Node.js program that reads all the greetings from the file greetings.txt, asks the user "What is your name?", then prints a random greeting followed by the given name. Make sure to check for the case where the file doesn't exist! For example, if the greeting is "Hey", then the program will print "Hey, Joe" to the console, then pick some other greeting and do the same until finished. Use Non-blocking I/O.

b. Write a Node.js program that reads all the greetings as before. When all the greetings are loaded, it creates a server listening on port number 8080. On request, it checks for whether there is a name value in the query string. If there isn't, the value of query.name will be undefined.

In other words, if you access <http://localhost:8080/?name=Mike>, then your browser should just display something like "Hello, Mike" when the page loads.

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Code 1:

App.js

```
const fs = require("fs");
fs.readFile("./greetings.txt", "utf8", function(err, data) {
  if (err) console.log("File not found");
  else {
```

```

    var dataread = data.split("\r\n");
    const readline = require("readline").createInterface({
      input: process.stdin,
      output: process.stdout,
    });
    readline.question("Enter your name: ", (name) => {
      len = dataread.length;
      index = Math.floor(Math.random() * len + 1);
      readline.close();
      console.log(dataread[index] + ", " + name);
    });
  }
});

```

Code 2:

App1.js:

```

const fs = require("fs");
var http = require("http");
const url = require("url");
http
  .createServer(function(req, res) {
    const query = url.parse(req.url, true).query;
    name = query.name;
    fs.readFile("./greetings.txt", "utf8", function(err,
data) {
      var dataread = data.split("\r\n");
      res.writeHead(200, { "Content-Type": "text/plain"
});
      if (err) res.end("Could not find file!");
      else {
        len = dataread.length;
        index = Math.floor(Math.random() * len + 1) -
1;
        res.end(dataread[index] + ", " + name);
      }
    });
  })
  .listen(8080);
console.log("Server running at http://127.0.0.1:8080/");

```

Output Screenshots:

1.

```
OUTPUT  TERMINAL  DEBUG CONSOLE  PROBLEMS  3

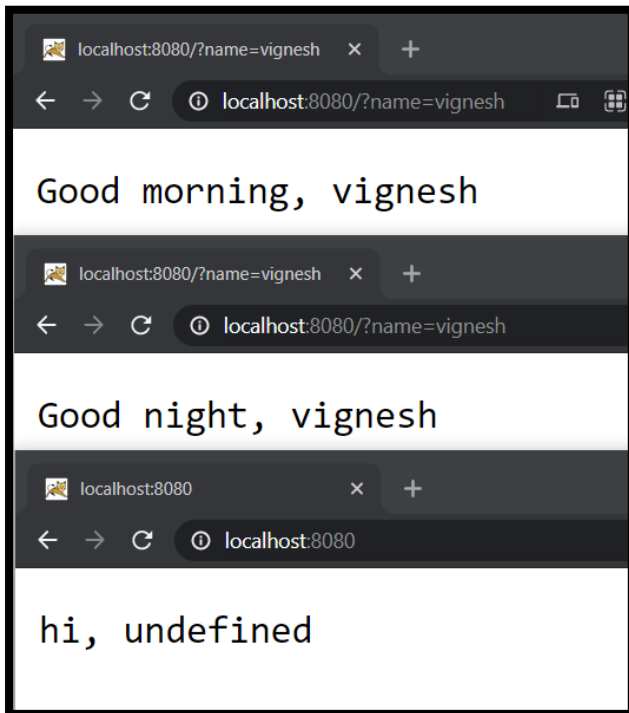
C:\Users\vignesh\Desktop\node assignment>node app.js
Enter your name: Vignesh
Good night, Vignesh

C:\Users\vignesh\Desktop\node assignment>node app.js
Enter your name: Vignesh
heyy, Vignesh

C:\Users\vignesh\Desktop\node assignment>node app.js
Enter your name: Vignesh
Good morning, Vignesh

C:\Users\vignesh\Desktop\node assignment>
```

2.



```
greetings.txt
1 hi
2 heyy
3 helloo
4 Good morning
5 Good night
```

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