Exercise8: Programs using Node.js

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AIM:

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.

Code:

```
var fs=require('fs');
const readline = require("readline");
const rl = readline.createInterface({
  input: process.stdin,
  output: process.stdout
});
rl.question("What is your name ? ", function(name) {
  fs.readFile('input.txt', function (err, data) {
  if (err) return console.log("File Not Found");
  data+='';
  var x=data.split(/\r?\n/)
  var greet = x[Math.floor(Math.random()*x.length)]
  console.log(greet,name);
  });
  rl.close();
});
```

Input.txt

```
hey
hello
welcome
whats Up
Hi
```

AIM:

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
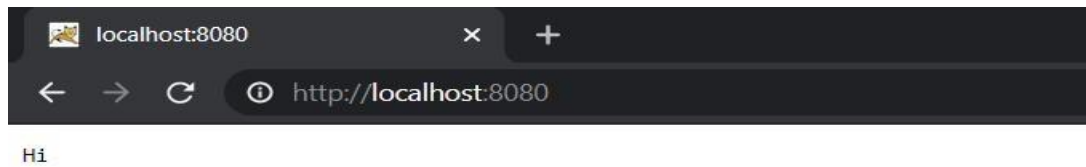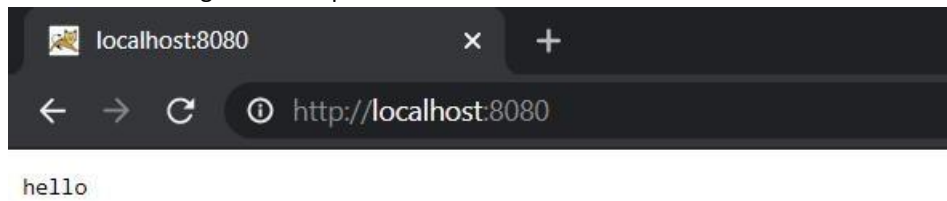
Code:

Input.txt

```
hey
hello
welcome
whats Up
Hi
```

```javascript
var fs=require('fs');
var http = require("http");
var url = require('url');
http.createServer(function (request, response) {
 const queryObject = url.parse(request.url,true).query;
 response.writeHead(200, {'Content-Type': 'text/plain'});
 fs.readFile('input.txt', function (err, data) {
 if (err) return console.log("File Not Found");
 data+='';
 var x=data.split(/\r?\n/)
 var greet = x[Math.floor(Math.random()*x.length)]
 response.write(greet);
 response.write(" ");
 response.end(queryObject['name']);
 });
}).listen(8080);
```

OUTPUT:

localhost:8080   ×   +

← → C   ⓘ http://localhost:8080

Hi

When refreshed again the output is

localhost:8080   ×   +

← → C   ⓘ http://localhost:8080

hello

Learning Experience:

• Learnt how to run a node program.

• Learnt the use of readline library.

• Learnt how to read from file and from console.

• Learnt the use of url library

• Learnt how to get data from url.