

Practical: 3

Que:1 Using HTTP and other required core modules, create HTTP server and display the following message to console and on the webpage for different URL entered by the user.

- (1) If user enter "/" then display "This is test"
- (2) If the user enters "/exam" then display the following table.

Semester	Subject
5th	Software Packages
4th	NOSQL

- (3) If user enter "/exam/regular_exam" then display "Regular exam"

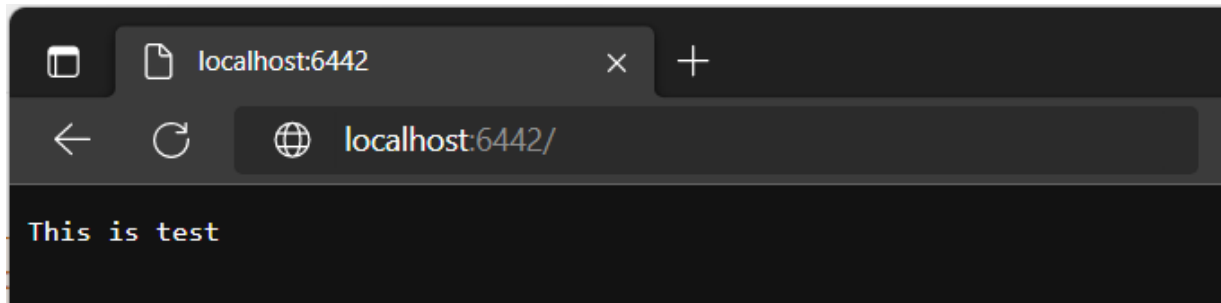
Note: You can use either switch case or else if statement.

```
const http=require("http")
const server = http.createServer((req,res)=>{
  if(req.url=== '/')
  {
    res.write("This is test")
  }
  else if(req.url=== '/exam')
  {
    var out="<html> <body> <table
    border='1px'><tr><th>Semester</th><th>Subject</th></tr><tr><td>5th
    Sem</td><td>Software Packages</td></tr><tr><td>4th
    Sem</td><td>NOSQL</td></tr></table></body></html>"
    res.write(out);
  }
  else if(req.url=== '/exam/regular_exam')
  {
    res.write("Regular exam");
  }

  res.end();
});
server.listen(6442,()=>{
  console.log("Connected Sucessful");
});
```

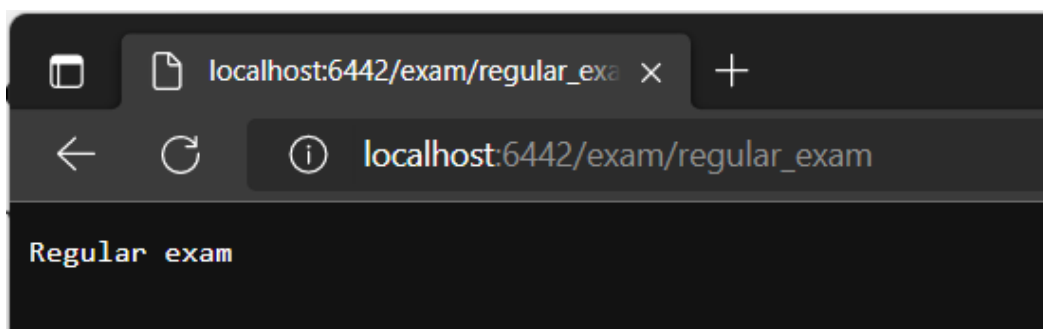
Output:

```
PS E:\B_Tech\SEM_5\SP\Practical\Code\Practical 3> node p3.1.js  
Connected Successful
```



A screenshot of a web browser window. The address bar shows 'localhost:6442/exam'. The page content displays a table with the following data:

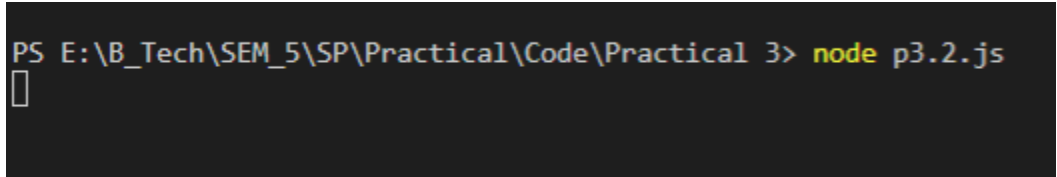
Semester	Subject
5th Sem	Software Packages
4th Sem	NOSQL



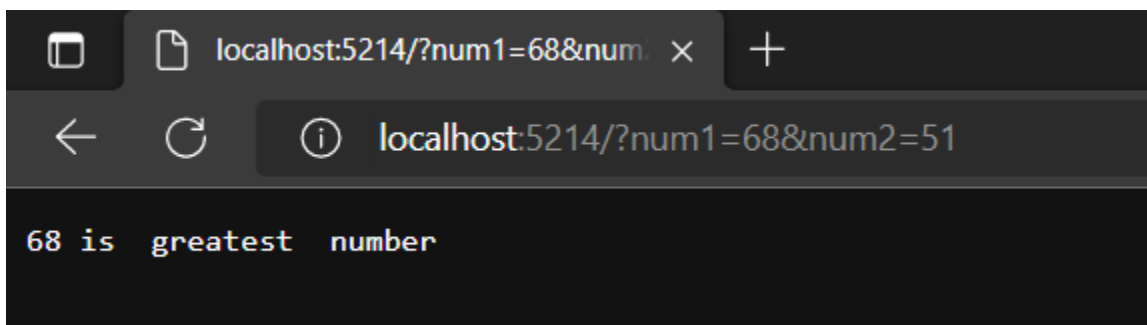
Que:2 In a given query string of URL, give two parameters num1 and num2 and assign integers values to them and then find the greatest number among those two numbers.[URL: localhost:8080/?num1=49&num2=34].

```
const url1 = require('url');
const http = require('http');
http.createServer(function(req, res) {
  var data1=url1.parse(req.url, true);
  var num1 = parseInt(data1.query.num1);
  var num2 = parseInt(data1.query.num2);
  if(num1>num2)
  {
    res.end(num1+" is  greatest  number");
  }
  else if(num2 > num1)
  {
    res.end(num2+" is  greatest  number");
  }
  else
  {
    res.end(num1+" and "+num2+" are equal");
  }
}).listen(5214);
```

Output:



```
PS E:\B_Tech\SEM_5\SP\Practical\Code\Practical 3> node p3.2.js
█
```



Que:3 Create a local module which contains 4 functions for multiplication, addition, subtraction and division. Export it in another file main.js and display their result.

p3.3.js

```
var add = function(num1, num2)
{
    return num1+num2;
}
var sub = function(num1, num2)
{
    return num1-num2;
}
var mul = function(num1, num2)
{
    return num1*num2;
}
exports.add=add
exports.sub=sub
exports.mul=mul
```

main.js

```
var cal = require('./p3.3.js');
console.log("Addition is: "+cal.add(14,5));
console.log("Subtraction is: "+cal.sub(14,5));
console.log("Multiplication is: "+cal.mul(14,5));
```

Output:

```
PS E:\B_Tech\SEM_5\SP\Practical\Code\Practical 3> node main.js
Addition is: 19
Subtraction is: 9
Multiplication is: 70
PS E:\B_Tech\SEM_5\SP\Practical\Code\Practical 3> █
```