

**GANPAT UNIVERSITY**  
**U.V. PATEL COLLEGE OF ENGINEERING**  
B.Tech 5th Semester CE

**2CEIT5PE4: Software Packages**

**Practical – 3**

**Aim :- Core, user defined and third party module.**

- 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 “Home Page”
  - (2) If the user enters “/exam” then display the following table.

Date	Code	Subject
28/08/2023	2CEIT501	Computer Architecture and Organization
30/08/2023	2CEIT503	Computer Network
01/09/2023	2CEIT5PE4	Software Packages

- (3) If user enter “/exam/semester\_end” then redirect user to timetable of “Regular exam”

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

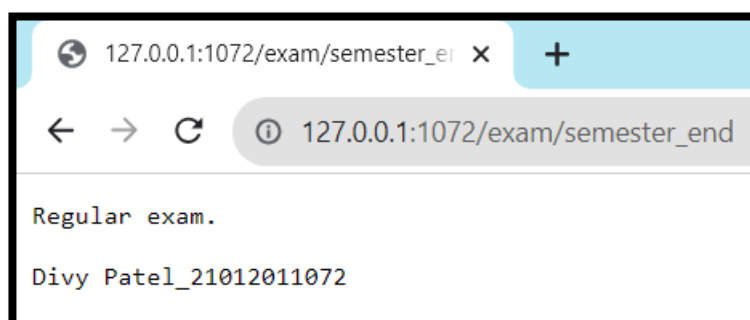
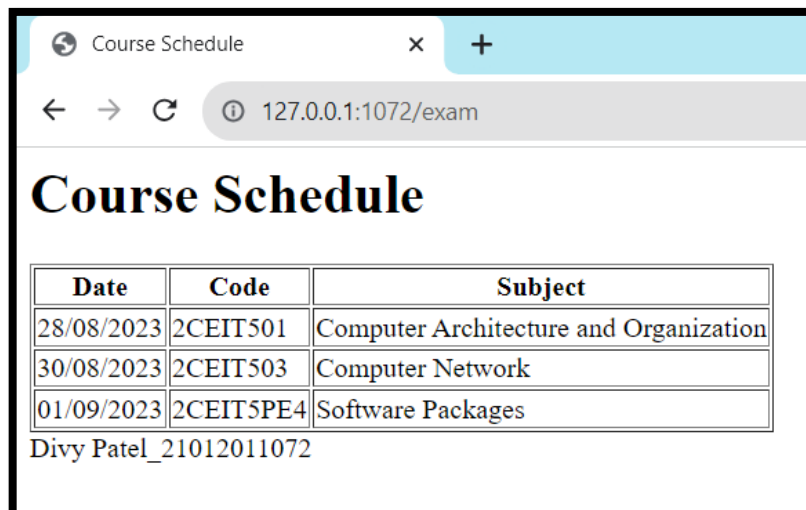
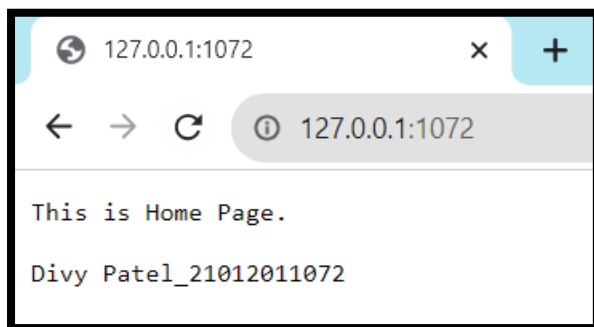
**Code :-**

```
var http = require('http');
http.createServer(function(req,res){
  if(req.url=='/'){
    res.write('This is Home Page.');
```

```
  }
  else if(req.url=='/exam'){
```

```
var code = '<html> <head> <title>Course Schedule</title></head><body><h1>Course  
Schedule</h1><table border="1"> <tr> <th>Date</th><th>Code</th><th>Subject</th></tr>  
<tr><td>28/08/2023</td><td>2CEIT501</td><td>Computer Architecture and  
Organization</td></tr> <tr><td>30/08/2023</td><td>2CEIT503</td><td>Computer  
Network</td></tr> <tr><td>01/09/2023</td><td>2CEIT5PE4</td><td>Software  
Packages</td></tr> </table> </body> </html>'  
res.write(code);  
}  
else if(req.url=='/exam/semester_end'){  
res.write('Regular exam.');}  
res.end("\n\nDivy Patel_21012011072");  
}).listen(1072);  
console.log("Connected Successfully.");
```

### Output :-



2. In a given query string of URL, give two parameters num1 and num2 and assign integers values to them and then find the smallest number among those two numbers.

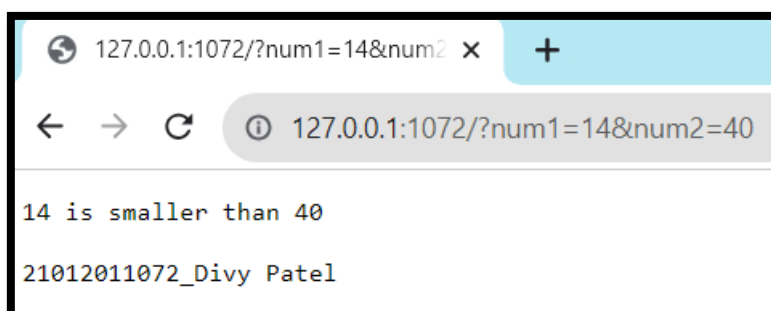
[URL:localhost:8080/?num1=14&num2=40]

### Code :-

```
var http = require('http');
var url = require('url');
var server = http.createServer(function (req,res) {
  const q = url.parse(req.url, true).query;
  const num1 = q.num1
  const num2 = q.num2

  if(num1>num2){
    res.write(`${num1} is greater than ${num2}.`);
    res.write("\n\n21012011072_Divy Patel");
    res.end();
  }
  else if(num1 == num2){
    res.write(`${num1} and ${num2} are same.`);
    res.write("\n\n21012011072_Divy Patel");
    res.end();
  }
  else{
    res.write(`${num1} is smaller than ${num2}.`);
    res.write("\n\n21012011072_Divy Patel");
    res.end();
  }
});
server.listen(1072);
```

### Output :-



- 3. Create a local module named as 'todoList' which contains 3 functions for adding, removing and listing tasks. Export it in another file main.js and display their result.**

**Code(P3 3.js) :-**

```
const tasks = [];  
exports.addTask = function(task) {  
  tasks.push(task);  
}  
exports.removeTask = function() {  
  tasks.pop();  
}  
exports.listTasks = function() {  
  return tasks;  
}
```

**Code(P3 3-1.js) :-**

```
const todoList = require('./P3_3.js');  
console.log('21012011072_Divy Patel');  
todoList.addTask('To do homework');  
todoList.addTask('Go for playing cricket');  
todoList.addTask('Go for sleep');  
  
const tasks = todoList.listTasks();  
  
console.log(`All tasks : ${tasks}`);  
  
todoList.removeTask();  
  
console.log('-----After removing tasks-----');  
console.log(`Current tasks : ${tasks}`);
```

**Output :-**

```
[Running] node "d:\College\5th Sem\Software Packages (SP)\Pract  
21012011072_Divy Patel  
All tasks : To do homework,Go for playing cricket,Go for sleep  
-----After removing tasks-----  
Current tasks : To do homework,Go for playing cricket
```