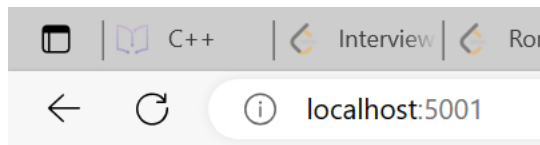# PRACTICAL-3

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.**
    a) **If user enter "/ " then display "Home Page"**
    b) **If the user enters "/exam" then display the following table.**
    c) **If user enter "/exam/semester_end" then redirect user to timetable of "Regular exam"**
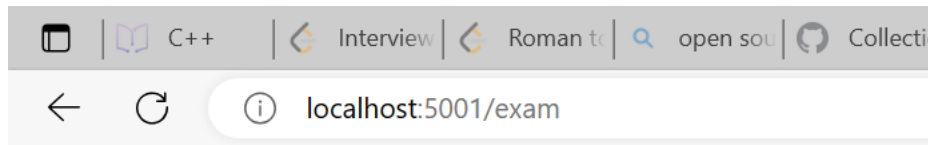   **Note: You can use either switch case or else if statement.**

```
var http = require("http");
var url = require("url");
http.createServer(function(req, res){
    if (req.url=='/'){
        res.write("This is test");
    }
    else if (req.url=='/exam'){
        res.writeHead(200,{"Content-Type": "text/html"});
        res.write('<table border="1">')

res.write('<tr><th><b>Date</b></th><th><b>Code</b></th><th><b>Subject</b></th></tr>');
        res.write('<tr><td>28/08/2023</td><td>2CEIT501</td><td>Computer Architecture and Organisation</td></tr>');
        res.write('<tr><td>30/08/2023</td><td>2CEIT503</td><td>Computer Network</td></tr>');
        res.write('<tr><td>01/09/2023</td><td>2CEIT5PE4</td><td>Software Packages</td></tr>');
        res.write('</table>')
    }
    else if(req.url=='/exam/semester_end') {
        res.write('Regular Exam');
    }
    res.end();
}).listen(5001);
```
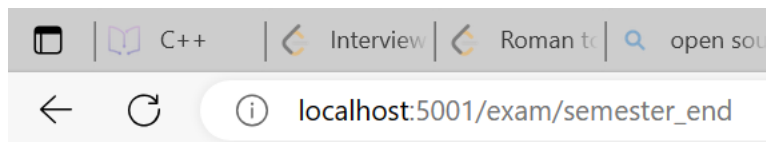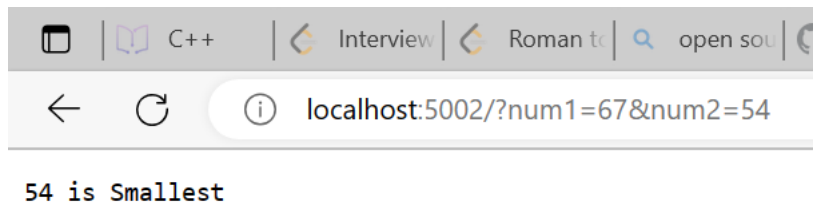
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← C (i) localhost:5001

This is test

C++ | Interview | Roman to | Q open sou | Collecti
← C (i) localhost:5001/exam

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

C++ | Interview | Roman to | Q open sou
← C (i) localhost:5001/exam/semester_end

Regular Exam

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].**

```
let http = require('http');
let url = require('url');
http.createServer((req, res) => {
    let q = url.parse(req.url , true).query;
    if(q.num1 < q.num2){
        res.end("Number-1 is Small.");
    }
    else if(q.num2 < q.num1){
        res.end("Number-2 is Small.");
    }
    else{
        res.end("Invalid Query!");
    }
}).listen(8080);
console.log("Program is Executed on Port : 8080");
```

```
54 is Smallest
```

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.**

Practical_3_1.js :
```javascript
let list = [];

function add_todo(task){
   list.push(String(task));
   console.log("Task Added.");
}
function remove_todo(task){
   const index = list.indexOf(String(task));
   if(index != -1){
      list.slice(index,1);
      console.log("Task Removed.");
   }
   else{
      console.log("Task Not Found.");
   }
}

function list_todo(){
   console.log("\n")
   for(let i in list){
      console.log(list[i]);
   }
   console.log("\n")
};

module.exports={
   add_todo,
   remove_todo,
   list_todo
}
```

Practical_3.js :
```javascript
let todo = require("./tl.js")
```

```
console.log("21012021003_AMIT GOSWAMI")
todo.add_todo("Complete CAO Practical 1,2,3,4")
todo.add_todo("Complete CAO Assignment")
todo.add_todo("Study CAO For Exam")

todo.list_todo()

todo.remove_todo("Complete CAO Notes")
todo.remove_todo("Complete CAO Practical 1,2,3,4")

todo.list_todo()
```

```
PS C:\Users\AMIT GOSWAMI\OneDrive\Desktop\SP> node "c:\Users\AMIT GOSWAMI\
\SP\Practical_3.js"
21012021003_AMIT GOSWAMI
Task Added.
Task Added.
Task Added.


Complete CAO Practical 1,2,3,4
Complete CAO Assignment
Study CAO For Exam


Task Not Found.
Task Removed.


Complete CAO Practical 1,2,3,4
Complete CAO Assignment
Study CAO For Exam
```