

AIT-LAB-01 (Exercise 1& 2) By Amir Ebrahimi

Firstly, **Mamp Apache** (the free version) downloaded and installed. In the preferences section, ports tabs, **default Mamp ports** was set (8888). A file named **index.html** was created in **htdocs**. When we go to "**http://localhost:8888/**", "It Works!" screen will be showed. In this case I used port 80 for another apache; although, Mamp does not work when another apache is working.

In the **"/conf/apache"** path **httpd.conf** is accessible. In the line of 46, it is possible to change the port. In the installation the port was changed from 80 to 8888.

In **MinGW Installation Manager**, some packages (including **gcc**) should be enabled. For these exercises, **Cywin** Terminal on Windows is used. "**setx PATH "%PATH%;F:\Cygwin64\bin"**" command is entered on terminal. The code in c++ is written in cgi-bin directory. By "**g++ file name**", the cpp file will be compiled and the .exe file is created. The name of .exe file should be changed to **myCode.cgi** (**g++ file_name -o file_name.cgi**).

Now it is time to change some lines in **httpd.conf** file. The value of **documentRoot** is changed from "**F:\MAMP\htdocs**" to "**F:\MAMP\cgi-bin**" (line# 192), and the code is added for the ability to execute the files in cgi-bin (line# 381).

```
Alias /MAMP "F:/MAMP/bin/MAMP/cgi-bin"

<Directory "F:/MAMP/bin/MAMP/cgi-bin">

    AllowOverride None

    Options None

    Order allow,deny

    Allow from all

</Directory>
```

In order to work properly, in the c++ file, after **content-type**, one free line is needed (cout << "Content-type: text/html" << endl << endl;). To print **quotation** in c++, a **backslash** should be used before it.

Afterwards, Mamp should be restarted.

A user should enter his data in a **form**, and a **cpp** file or a **php** file is called by method of **get** and writing the name of the code in the **action**. As well, a button of back is considered for each page to go to the homepage (index.html).

A **css** file is added in order to get styles for html elements. Two **classes** are minded for input tags.

For writing a php code, considering the format of the file is too important. The format should be php; however, it contains the php tag in the html tag.

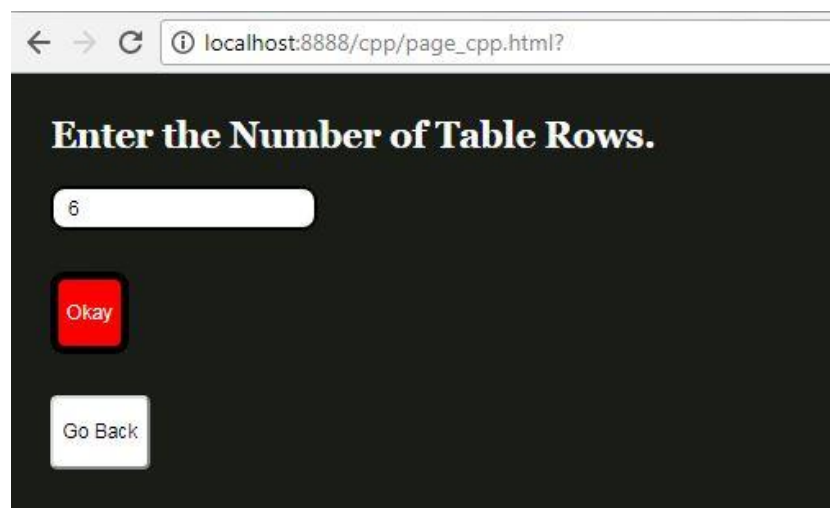
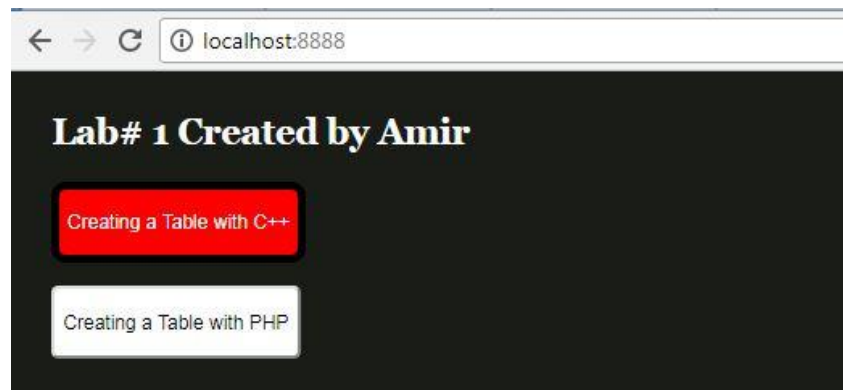
Adding the line "`header('Content-Type: text/html');`" before anything in the php tag is important and recommended; though, if we ignore doing that, it works properly.

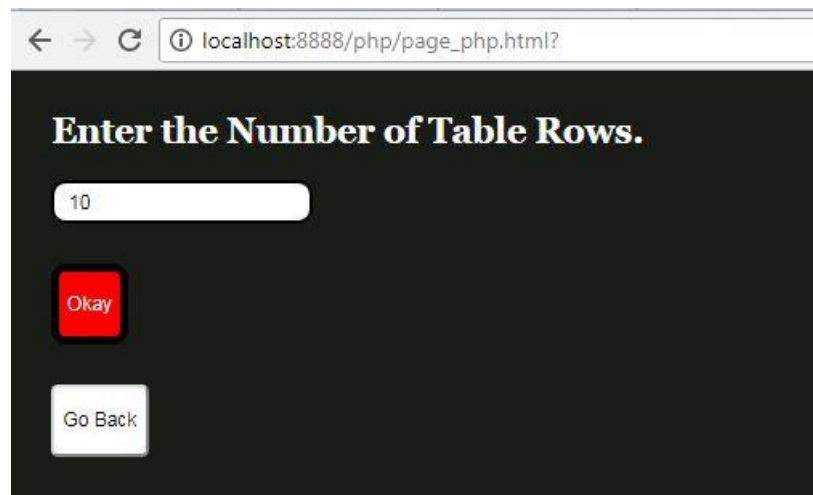
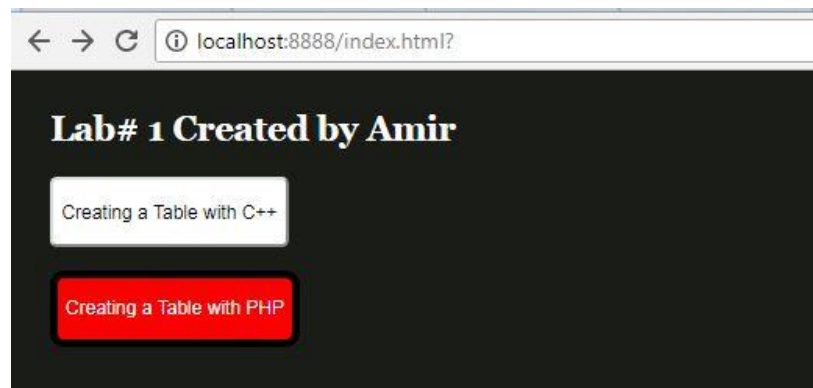
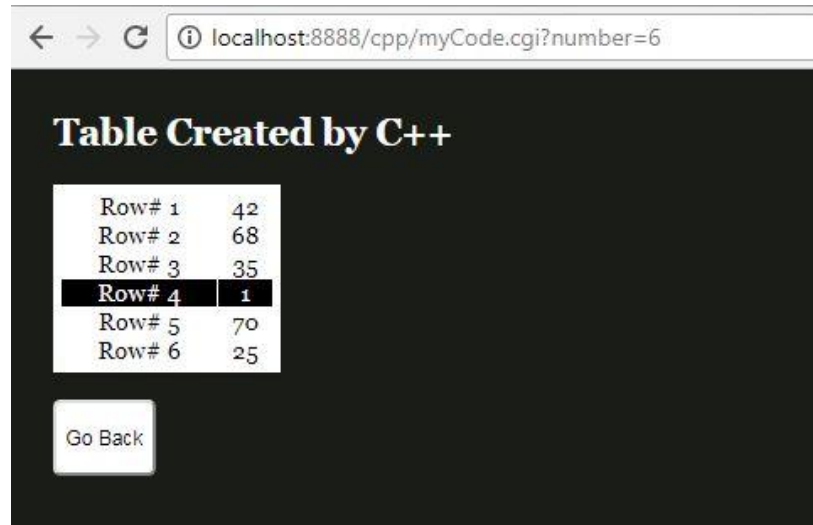
Changing from one directory to the others might create problem. Hence, `cgi-bin` directory is used.

The files:

1. `httpd.conf` (configuration)
2. `index.html` (homepage)
3. `page_cpp.html` (page of creating the table by c++)
4. `myCode.cpp` (c++ file of the previous page)
5. `myCode.cgi` (the compiled c++ file)
6. `page_php.html` (page of creating the table by php)
7. `myCode.php` (php file of the previous page)
8. `styles.css` (css file)

The output:





← → ↻ ⓘ localhost:8888/php/myCode.php?number=10

Table Created by PHP

Row# 0	48
Row# 1	37
Row# 2	84
Row# 3	13
Row# 4	25
Row# 5	88
Row# 6	76
Row# 7	46
Row# 8	45
Row# 9	96
Row# 10	89

Go Back