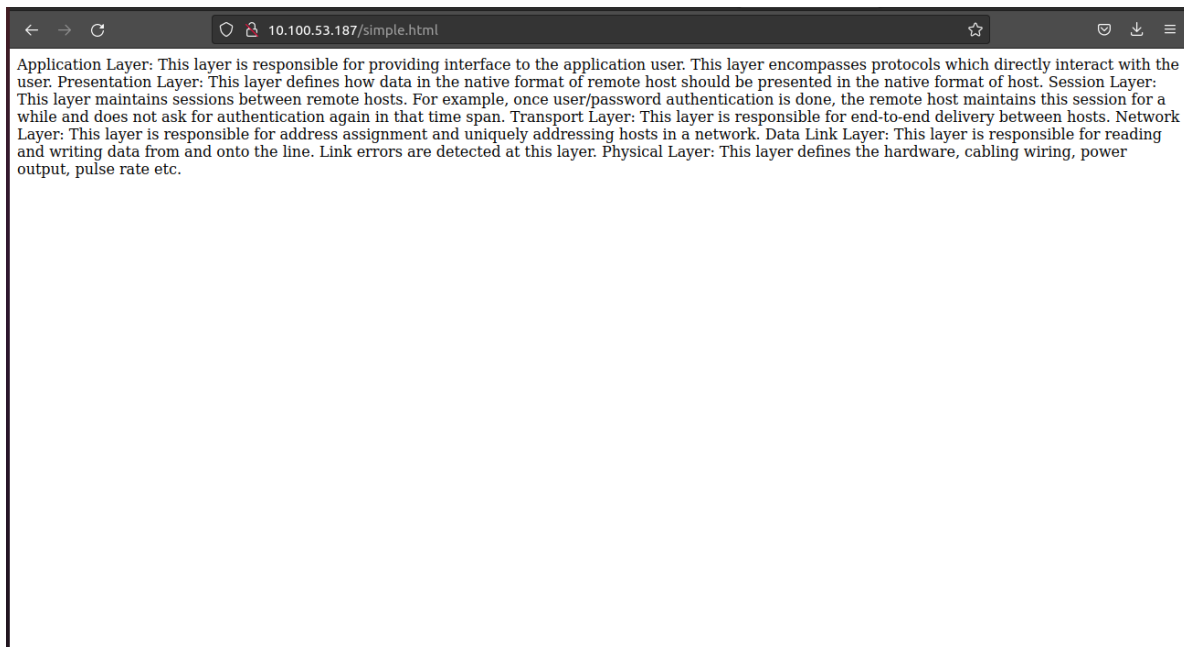


## COMPUTER NETWORKING LAB - 1

Name: Sachin Prasanna

Roll No.: 211IT058

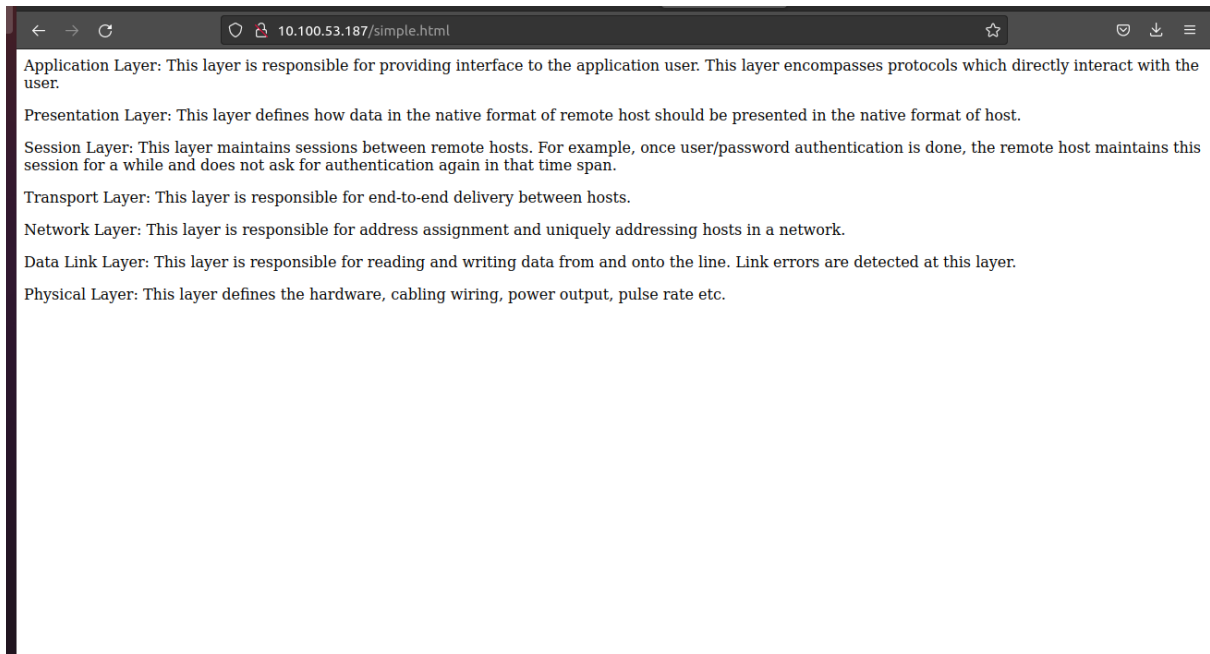
3.



The webpage was created by using vim editor on linux Terminal by using vi simple.html command. Then I inserted the code from the PDF and ran it by using :wq command.

Finally, the webpage is accessed by writing iP address along with the file name. The output is displayed in the above image.

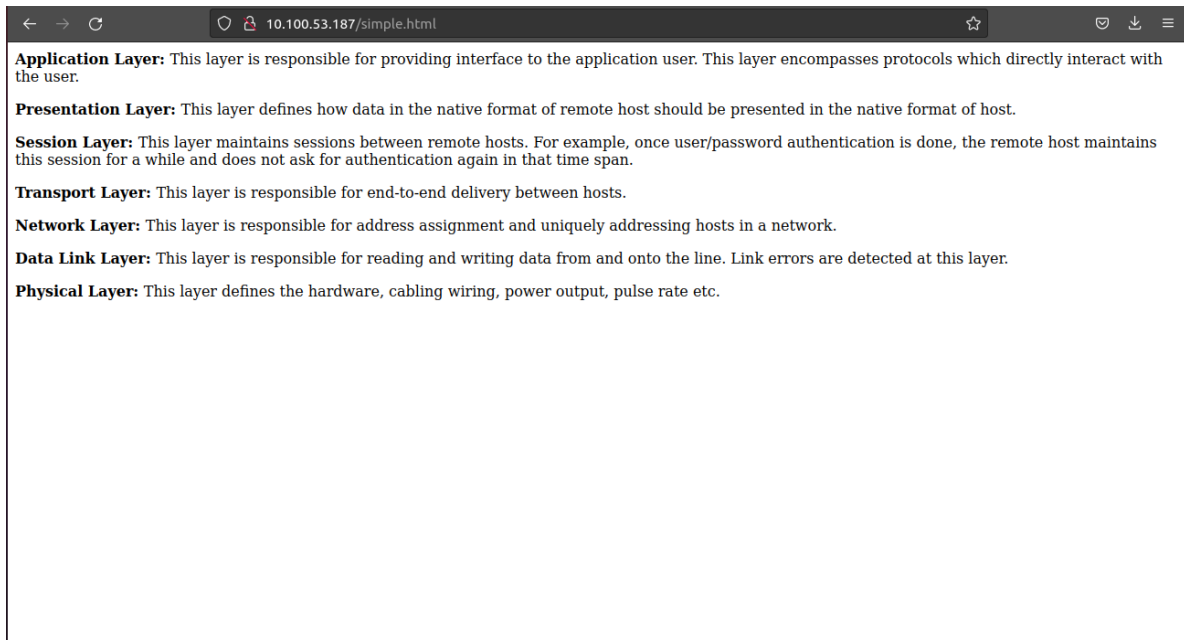
4.



In HTML, the `<p>` tag means a paragraph.

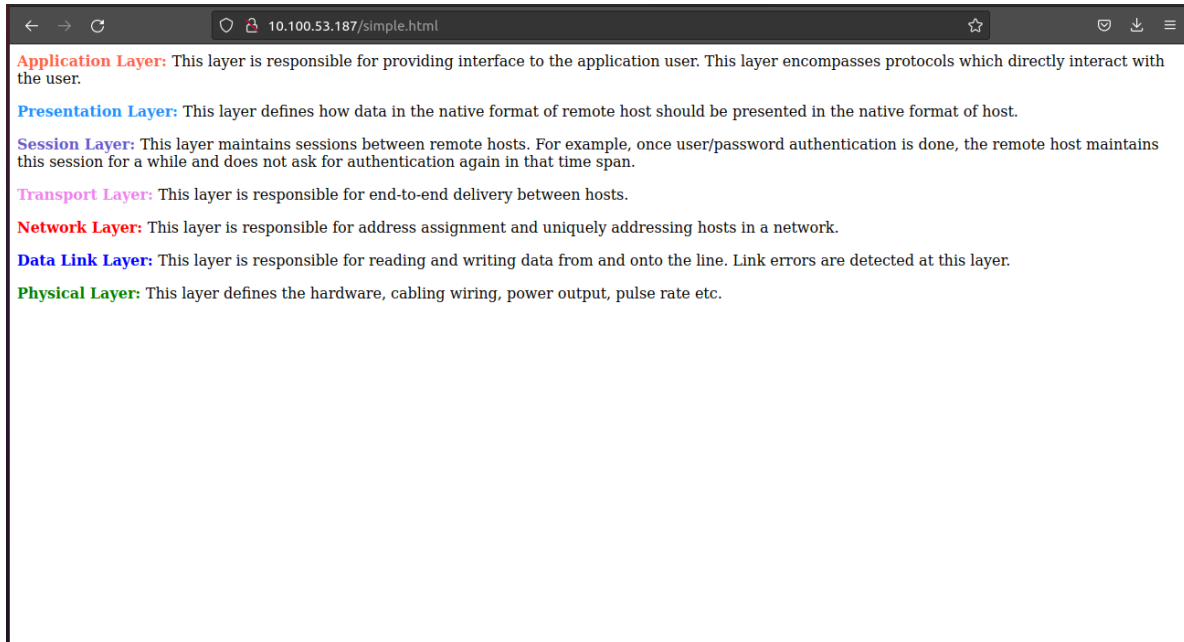
Before and after each `<p>` element, the browser adds a new line (a blank line).

5.



In HTML, `<b>` tag means bold tag.

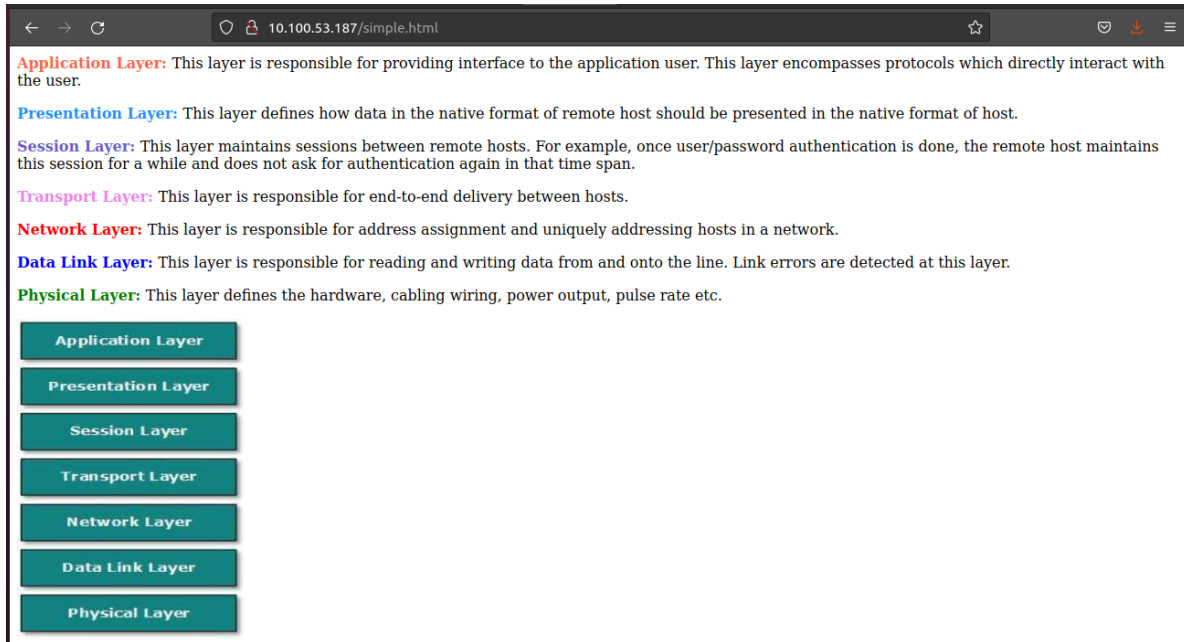
It is used to bold whatever is written in between the tags. This is done without any extra importance. Nowadays, the `<strong>` tag is more commonly used.



CSS can be used in 3 ways - Inline, Internal and External. In this code, we have used the inline version of CSS.

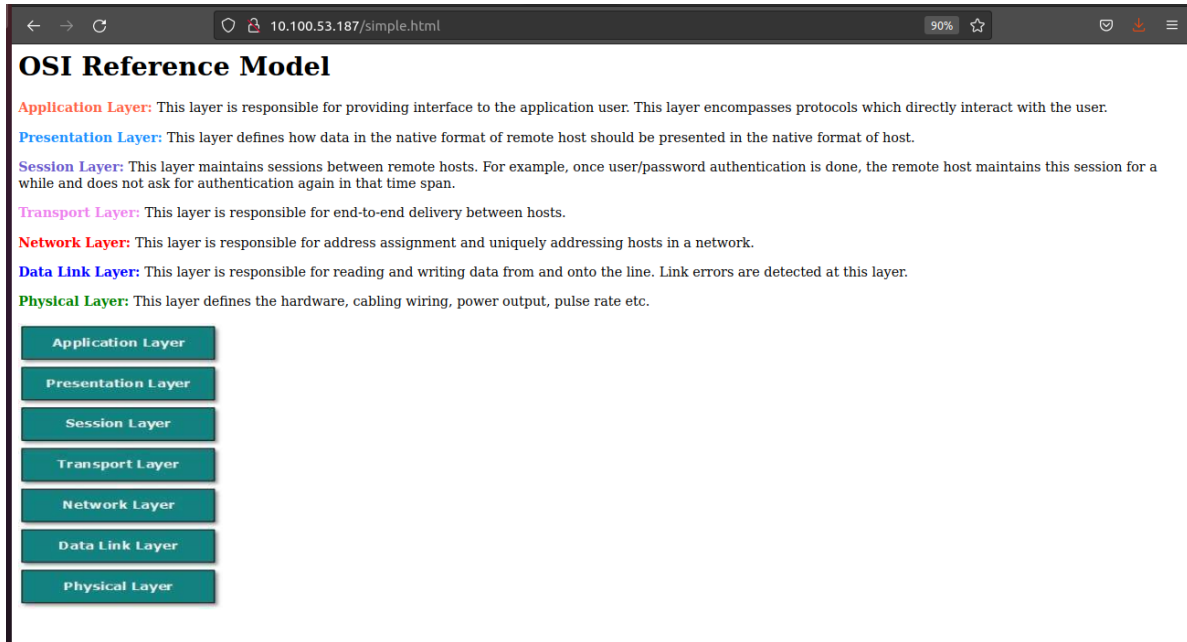
Inline CSS is implemented by using the style attribute inside HTML elements. Here, we used the color tag to color some of the elements.

7.



In this I downloaded the image from moodle and saved it in downloads. Then I moved it to var/www/html by using the - mv OSI\_model.jpg /var/www/html command.

Then I used simple HTML to display the image.



<h1> tag creates a heading of largest size. Here, I used <h1> tag on the OSI Reference Model tag.

9.

10.100.53.187/simple.html

80% ☆

## OSI Reference Model

**Application Layer:** This layer is responsible for providing interface to the application user. This layer encompasses protocols which directly interact with the user.

**Presentation Layer:** This layer defines how data in the native format of remote host should be presented in the native format of host.

**Session Layer:** This layer maintains sessions between remote hosts. For example, once user/password authentication is done, the remote host maintains this session for a while and does not ask for authentication again in that time span.

**Transport Layer:** This layer is responsible for end-to-end delivery between hosts.

**Network Layer:** This layer is responsible for address assignment and uniquely addressing hosts in a network.

**Data Link Layer:** This layer is responsible for reading and writing data from and onto the line. Link errors are detected at this layer.

**Physical Layer:** This layer defines the hardware, cabling wiring, power output, pulse rate etc.

Application Layer

Presentation Layer

Session Layer

Transport Layer

Network Layer

Data Link Layer

Physical Layer

**Did you like the Information**

CLICK

10.100.53.187/simple.html

80% ☆

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Application Layer

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Transport Layer

Network Layer

Data Link Layer

Physical Layer

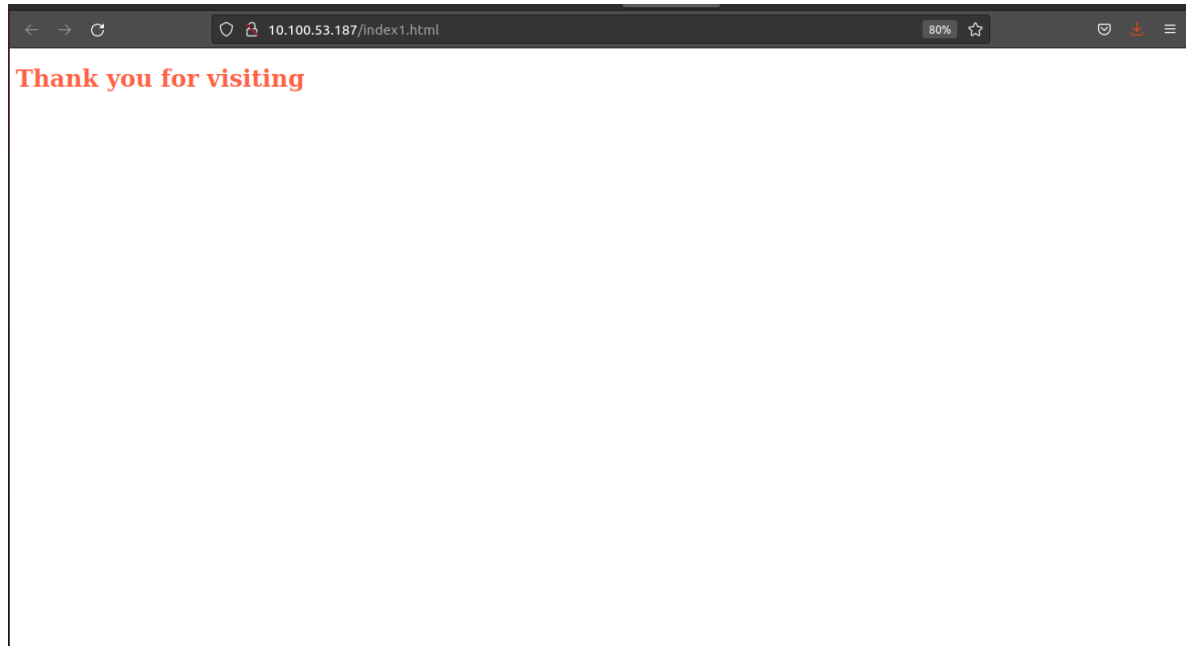
**Did you like the Information**

CLICK

10.100.53.187

Thank You

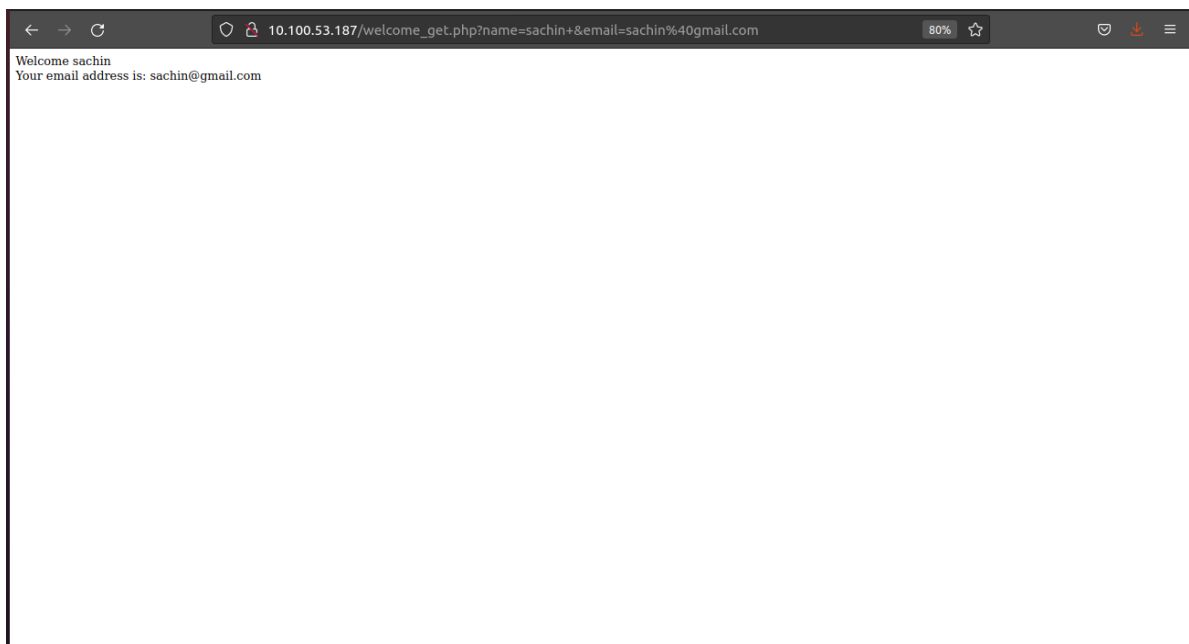
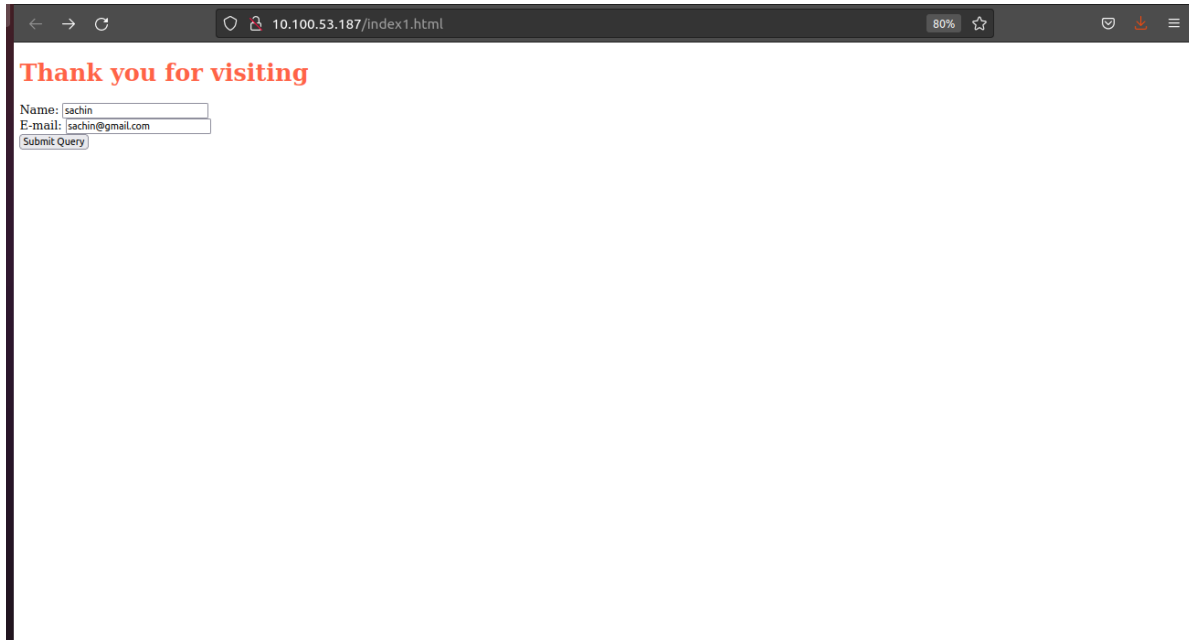
OK



Since index.html file already existed and it was a readonly file, I created a index1.html file and ran the code in it. The above were the results.



10.

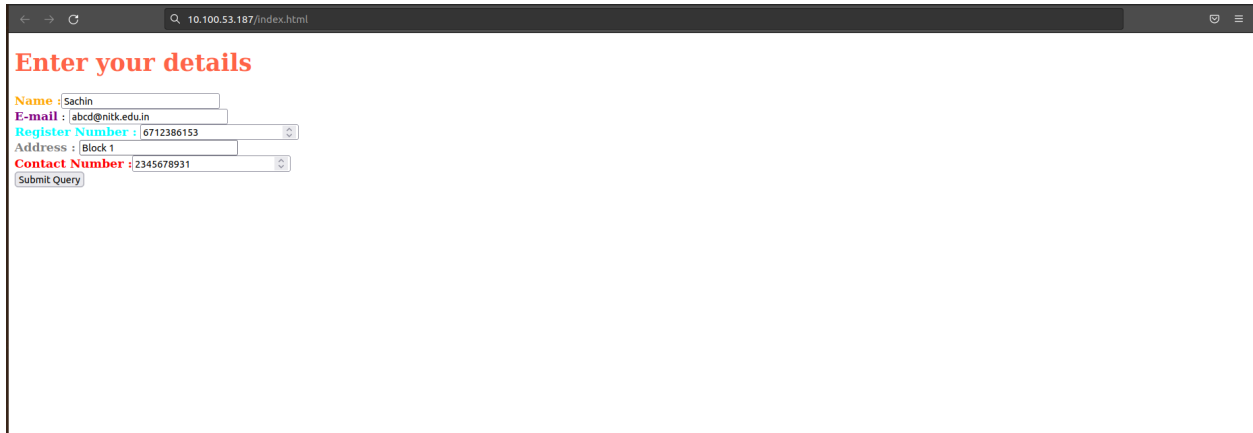


After installing PHP, and writing the code, the following was observed. I got what I inputted in another tab after I clicked submit.


11.

```
<> index.html > html > body > form > br
1  <!DOCTYPE html>
2  <html lang="en" dir="ltr">
3  <head>
4    <meta charset="utf-8">
5    <title>Student Details</title>
6  </head>
7  <body>
8    <h1 style="color:red;">Enter your details</h1>
9
10   <form action = "welcome_get.php" method = "get"> <br>
11
12     <b style = "color:orange;"> Name:</b>
13     <input type="text" name="name"><br>
14     <b style = "color:purple;">E-Mail: </b>
15     <input type="email" name="email"><br>
16     <b style = "color:turquoise;">Register Number:</b>
17     <input type="number" name="reg_no"><br>
18     <b style = "color:grey;">Address:</b>
19     <input type="text" name="address"><br>
20     <b style = "color:red;">Contact Number:</b>
21     <input type="text" name="contact_no"><br>
22
23     <input type="submit" value = "Submit Query">
24
25   </form>
26
27 </body>
28 </html>
```

```
welcome_get.php
1  <html>
2  <body>
3    Welcome: <?php echo $_GET["name"]; ?>
4    Your email address is: <?php echo $_GET["email"]; ?>
5    Your registered number is: <?php echo $_GET["reg_no"]; ?>
6    Address: <?php echo $_GET["address"]; ?>
7    Contact Number: <?php echo $_GET["contact_no"]; ?>
8  </body>
9  </html>
```



A screenshot of a web browser window. The address bar shows '10.100.53.187/index.html'. The page has a title 'Enter your details' in red. Below the title, there are five input fields with labels: 'Name' (Sachin), 'E-mail' (abcd@nitk.edu.in), 'Register Number' (6712386153), 'Address' (Block 1), and 'Contact Number' (2345678931). Each label is color-coded: Name is orange, E-mail is purple, Register Number is cyan, Address is green, and Contact Number is red. Below the last field is a 'Submit Query' button.



A screenshot of a web browser window. The address bar shows '10.100.53.187/welcome\_get.php?name=Sachin&email=abcd%40nitk.edu.in&register\_number=6712386153&address=Block+1&contact\_number=2345678931'. The page content displays the following text: 'Welcome: Sachin', 'Your email address is: abcd@nitk.edu.in', 'Your registered number is: 6712386153', 'Address: Block 1', and 'Contact Number: 2345678931'.

All the answers of the questions were implemented in this question. Various attributes of CSS like color were implemented. Finally, the inputted result was shown in a PHP file.