

SVKM's NMIMS University
Mukesh Patel School of Technology Management & Engineering

PROGRAM: BTech IT/MBATECH SEMESTER III

COURSE: Web Programming

Practical Experiment: 1

BASIC WEB DESIGN LAB MANUAL

Part B (to be completed by students)

(Students must submit the soft copy as per the following segments. A soft copy containing Part A and Part B must be uploaded on the platform specified by the Practical Teacher. The filename should be **RollNo_Name_Exp1**)

Roll No.: K057	Name: Tejas Sahoo
Prog/Yr/Sem: 2 nd Year	Batch: 2
Date of Experiment: 7/17/2024	Date of Submission:

1. Explain the 3-Tiered Architecture.
2. What do you understand by web browsers and web server in your own language.
3. XML Vs. JSON
4. Design a page having suitable background color and text color with title "My First Web Page" using all the attributes of the Font tag.

Procedure:

1. Go to start ->all program ->accessories-> notepad.
2. Type the html code.
3. Include title "my first web page" in title tag.
4. Set the background for the webpage by using bgcolor attributes of the body tag.
5. Use font tag to display text.
6. Go to file->save->save the file with html extension.
7. Run the html code using browser.

```
<html >
<head>
<title>My first web page</title>
</head>
<body bgcolor="green">
<font size="16" color="white" face="Arial">MY FIRST WEBPAGE.</font>
</body>
</html>
```

*****output*****

Q1. Explain 3 Tiered Architecture.

A 3 tiered architecture is an implementation made for the a proper processing flow. The 3 Tiered as the name suggests is split into three Tiers. They are as follows

- Presentation Tier: This tier is responsible for presenting the information to the user. In web programming HTML and CSS and sometimes JavaScript is used to completely manage this presentation tier.
- Application Tier: The application Tier is responsible for the processing of the data. It is often written in a language like java which is focused on the processing more. It often contains the logic to process the data.
- Data Tier: The data tier is the tier that manages the database. This is often written in a language that is optimized focused and written for managing databases. Like MongoDB, SQL, MariaDB , etc.

The three tiers splits the functionality into three different parts. The presentation the logical and the storage part. It offers benefits like

- Faster Development
- Improved Scalability
- Improved Reliability
- Improved Security

Q2. What to you understand by web browsers and web server in your own language.

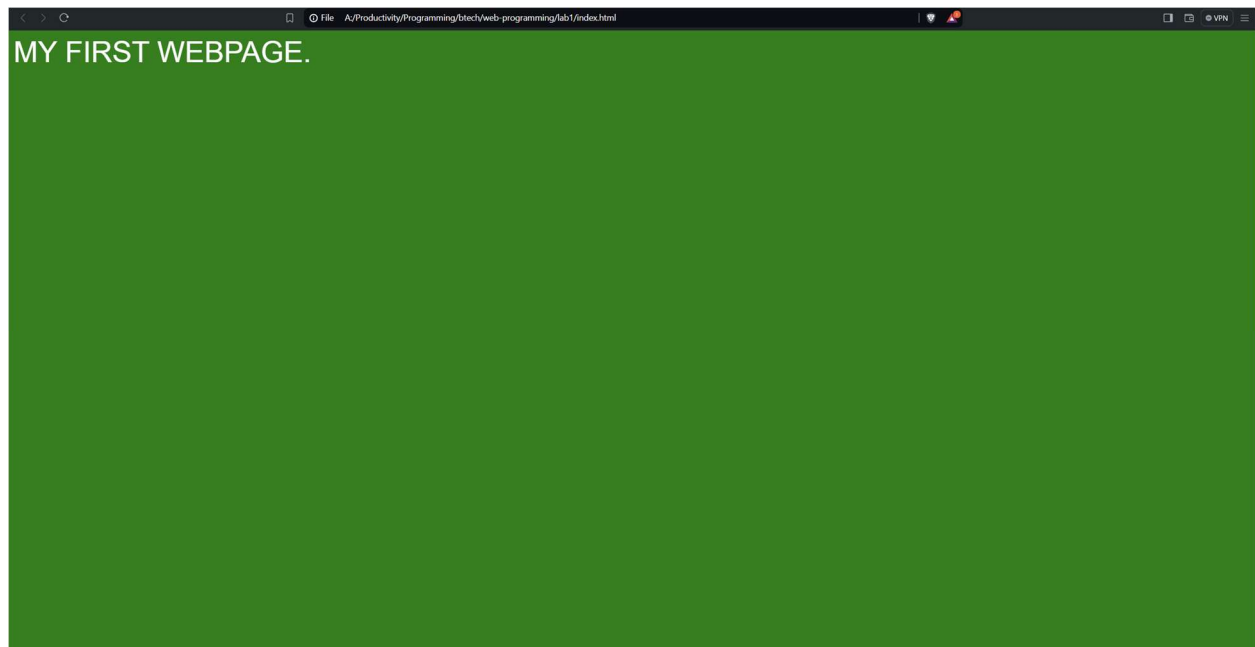
The web browsers are user interfaces for the users to access various webpages. It interprets HTML, CSS, HTML to render web pages for the user.

On the contrary webserver is a system or a computer that serves the webpage data to the browser. It handles HTTP requests from the clients and returns the appropriate HTTP Responses.

Q3. XML Vs JSON

XML	Json
<ul style="list-style-type: none">- XML has a different parser XML Parser- XML uses end tags- XML is longer to write	<ul style="list-style-type: none">- JSON has a different Parser JSON Parser- JSON doesn't use end tags- JSON is shorter to write

Q4. Design a page having suitable background color and text color with title “My First Web Page” using all the attributes of the Font tag.



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5. Create a HTML document giving details of your [Name, Age], [Address, Phone] and [Register Number, Class] aligned in proper order using alignment attributes of Paragraph tag.

Procedure:

1. Go to start -> all program -> accessories -> notepad
2. Type the html code
3. Align [name, age] to center by using align="center" of <p> tag
4. Align [register, number, class] to right using align="right" of <p> tag
5. Go to file -> save -> save the file with html extension
6. Run the html code using browser

```
<html>
<head><title>program 02</title>
</head>
<body>
<p align="center">Name: <br>Age: 16
</p>
<p align="right">Address: XYZ<br>Phone: 123535615
</p>
<p align="left">Reg No: 169cs15015<br>Class: 2nd Sem C's
</p>
</body>
</html>
```



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6. Write HTML code to design a page containing some text in a paragraph by giving suitable heading style.

Procedure:

1. Go to start -> all program -> accessories -> notepad
2. Type the html code
3. Use <h1> to <h6> tag to display heading
4. Use <p> tag for the paragraph
5. Go to file -> save -> save the file with html extension
6. Run the html code html using browser

```
<html>
<head>
<title>program 03</title>
</head>
<body>
<center>
<h1>Basic Web design Lab</h1>
</center>
<h2 align="left"> Definition </h2>
<h3 align="left">Website</h3>
<p>
A set of inter connected web pages usually including a home page and many other web pages
</p>
</body>
</html>
```

*****output*****



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7. Create a page to show different character formatting (B, I, U, SUB, SUP) tags.

viz : $\log_b m^p = p \log_b m$

Procedure:

1. Go to start ->all program – >accessories-> notepad
2. Type the html code
3. Include ,<u>,<sup>,<sub>,tags
4. Go to file->save-> save the file with html extension
5. Run the html code using browsers

```
<html>
<head>
<title>program 04</title>
</head>
<body>
<p> <b> <i> log</i></b> <sub>b </sub>m<sup> p</sup> =p<b> <i> log </i>
</b><sub>b</sub> m</p>
</body>
</html>
```

*****output*****



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8. Write a HTML code to create a web page with pink color background and display moving message in red color.

Procedure:

1. Go to start->all programs->accessories->notepad
2. Type the html code
3. Include bgcolor="pink" attribute in the body tag
4. Use font tag to display moving text in red color by setting color="red" attribute
5. Include marquee tag inside font tag to display moving text
6. Go to file ->save->save the file with html extension
7. Run the html code using browser

```
<html>
<head>
<title>program 09</title>
</head>
<body bgcolor="pink">
  <font color="red"><marquee direction="left">
    Welcome to NMIMS</marquee></font>
</body>
</html>
```

*****output*****

