## Web Technology-I Lab Report questions:

1. Create a web page and change the background color and text color of web page.
2. Create a web page and set a background as image and change the text color appropriate with background.
3. Create a webpage and insert different types of heading (h1 to h6) and apply the different type of attributes belongs to heading tags.
4. Write an article about your birth place and present it in webpage. The contents of the page should be presented in readable and attractively. Provide appropriate title for the web contents and highlight heading as far as possible. Decorate the paragraph by changing font color, size and style. (Use br, h1, hr, font, p and other formatting tags)
5. Create a webpage containing a several paragraphs and align the paragraph such as left, right, center and justify.
6. Create a webpage and mention some commandments related about computer ethics for user while using computer. Apply some formatting tags such as <b>, <i>, <u>, <small>,,<ins>, , <del>, <mark>, <sup>, <Sub> etc to highlight the contents and present effectively and attractively.
7. Create a webpage and present the biography of your idol person. Include some details and images related with person. Use different html tags and attributes to presents it effectively and attractively. (Use h1….h6, hr, br, p, font, img tags etc.)
8. Collect some the pictures of tourism places of Nepal. Now, create a webpage to present them as "photo gallery". Add the hyperlink with these pictures to view individually.
9. Create three different webpages and include some web contents such as text, picture, list or paragraphs of any topics. Create a hyperlink in each page to navigate externally from one page to another page. And also include internal hyperlink such as top, middle or bottom to navigate different location of same page.
10. Prepare a list of computer hardware (internal and external components of computer, networking devices etc.). Now, hyperlink them with related image in order to show the image when it is clicked.

## Lab 11 - 15

11. Prepare a list of software use in computer such as operating system, application software, utility software, programing languages, browsers etc. Present them in web page by using different types of order list and unorder list.
12. Design the table using table tags

| Subject | Section A | | Section B | |
|---|---|---|---|---|
| Web Technology | Sunday | Monday | Tuesday | Wednesday |
| Financial Accounting | Monday | Wednesday | Sunday | Friday |
| Java Programming | Tuesday | Friday | Wednesday | Thursday |

| Types of Software | Examples |
|---|---|
| System Software | Windows |
| | Linux |

| | |
|---|---|
| | Apple iOS |
| | Android |
| System Software | MS Word |
| | MS Excel |
| | Adobe Photoshop |
| | Viber |

| Subject | Marks | |
|---|---|---|
| Web Technology | Practical | A+ |
| | Theory | A |
| Java Programming | Practical | B+ |
| | Theory | B |

13. Design the layouts for webpage using tables and include related contents as mentioned.

<table>
<tr><td colspan="3">Menu Bar</td></tr>
<tr><td colspan="3">Banner Image</td></tr>
<tr><td colspan="2">Main Contents</td><td>Side Bar (Lists</td></tr>
<tr><td>Image 1</td><td>Image 2</td><td>Image 3</td></tr>
</table>

| Footer |
|---|

14. Create a web page layout using html tags.

| **Image goes here** | | |
|---|---|---|
| Navigation Bar (Horizontal Menu) | | |
| Left Sidebar<br>Lists | Main Content goes here | Right Sidebar<br>Images |
| Footer goes here | | |

15. a. Create a login form. The form consists username and userpassword text box to enter values and login and reset buttons for login and reset the values.
    b. Create a form to input details of newly admitted students for collecting records. The form consists Students Rol no, Name, Address. Use 'radio button' for gender and 'date' to input DOB of students. Use 'select and option' for choosing means of transport from different options they prefer. Create the text area for fill up some details of students. And also design the Save, Cancel and Reset buttons.

## Lab 16:

A web page consisting of some heading and paragraphs. Create individuals pages to add following properties

a. Use an id selector to change properties.
b. Use a class selector to change properties.
c. Use an element selector to change properties.
d. Use a universal selector to change properties.
e. Use a group or combined selector to change properties.

## Lab 17

a. The web page consists some heading, div and paragraphs. Use Internal CSS change properties of each elements of web page.
b. The web page consists some heading, div and paragraphs. Use In-Line CSS change properties of each elements of web page.
c. The web sites consist three web pages. Use External CSS to apply same properties to all web pages.

## Lab 18:

a. Include ten short paragraphs in web page. Change color of each paragraph by giving color name. Use inline selector to add color properties.
b. Include ten paragraphs in web page. Provide different id for each of them. Now, change favorite the background color and font color using rgb() or rgba() values
c. Include ten div with width 300px and height 100px in web page. Give different id for each of them. Now, change favorite the background color of using hsl() or hsla() values.

## Lab 19

a. Create a web page of your favorite place. Provide appropriate heading, add at least three paragraphs describing inclusive information about the place and include some images too. Use as much as HTML tags such as h1.. h6, p, div, span, img etc to include text contents and images. Use CSS properties such as background-color, color, font-size, font-weight, font-style, font-family, text-decoration, height, width, border, margin, padding, text-decoration etc to format the text and images to present attractively.

b. Create a web page for online shopping site for computer accessories. Present at least eight with their specifications. Use html tags and css properties to present them effectively and attractively.

c. Create two different web pages. Add a div element and include some paragraph about social media. Using css properties, declare same height, width and background color for both div. Right now, illustrate them differently by applying box model components such as contents, padding, border and margin and their values.

## Lab 20

A. Create a vertical menu and design and decorate using CSS. The menu consists the title such as HTML, CSS, JAVASCRIPT, BOOTSTRAPT, JQUERY, XML, PHP. Link the menu with individual web page.

B. The navigation bar (horizontal menu) consists the items File, Home, Insert, Layout, Design, View and Help. Using CSS properties, present the menu in attractively and effectively as much as possible. The text color and background color must be changed when hover it. Link with each pages while navigating.

## Lab 21

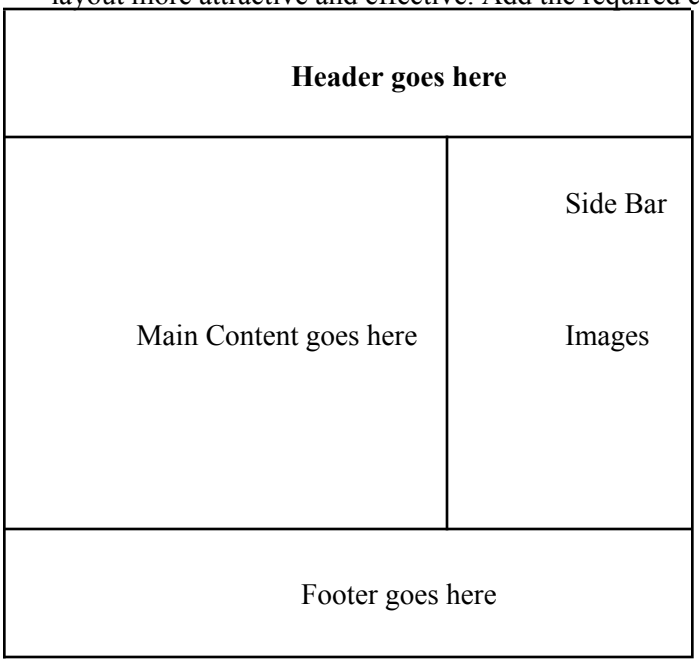
A. Design the button for your web page using div element. Using the CSS properties, present it more attractive as much as possible.

B. Create a box sized 600px by 400px using div element. Add the properties such as border, gradient, shade etc.

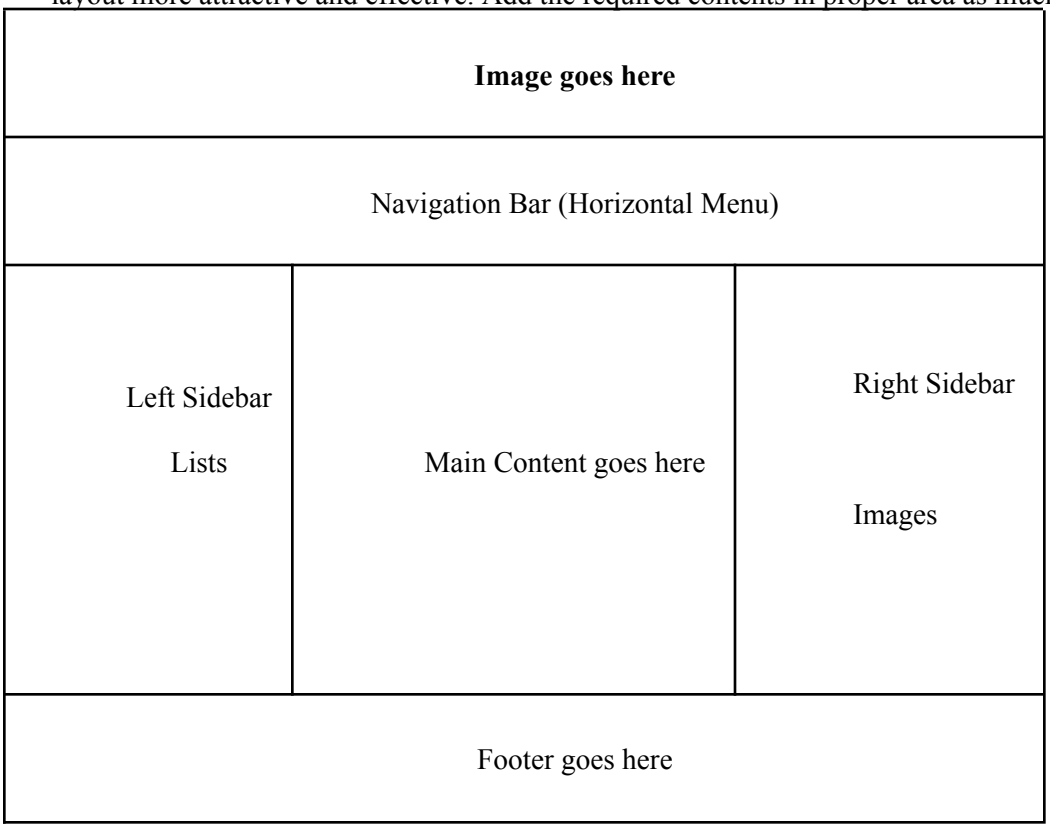
C. Type a text “WEB TECHNOLOGY”. Format the text using CSS properties such as text-decoration, weight, shade etc. so that it can be used as a “banner text” for your web page.

**Lab 22**

A. Use CSS code to generate following layout. Use div and other required elements to present the layout more attractive and effective. Add the required contents in proper area as much as possible.




B. Use CSS code to generate following layout. Use div and other required elements to present the layout more attractive and effective. Add the required contents in proper area as much as possible.



**Lab 23**

A. Design the login form including user name, user password, user type (Admin, Account, Teacher or student) and login button. Decorate it attractively using CSS properties.

B. Create a form to insert records of students. The form consists following elements and present it well organized format as more as possible by using CSS properties.
    a. Roll number (number)
    a. Student's name (text box)
    a. Address (text box)
    a. Gender (radio)
    a. Date of birth (date)
    a. Faculty (select and option)
    a. Transportation (check box)
    a. Save button
    a. Cancel button

## Lab 24

a. Write a program to accept any number from user and find square of a given number.
b. Write a program to input any five numbers and find average of that numbers.
c. Write a program the sum, difference, product of any two numbers given by the user.
d. Write a program to input any two number and find cube and cube root of a that number.
e. Write a program to ask to input length and breadth of rectangle and find the area and perimeter.
f. Write a program to input length and find the area and perimeter of square.
g. Write a program to input length and height find area of the triangle.
h. Write a program to ask radius of circle and print its circumference and area.
i. Write a program to input length breadth and height and print the volume of a cuboid and total surface area
j. Write a program to calculate the volume and surface area of cube whose length is given be user.
k. Write a program to input principle amount, rate and time and calculate and print the simple interest.

**Lab 25**

a. Write a program to input any number and check whether input number is odd or even.
b. Write a program to enter any two numbers and display the smaller one
c. Write a program to enter any three numbers and display the middle number

d. Write a program to enter any three numbers and display the greatest, smallest and the middle number.
e. Write a program to define which returns whether an input number is positive, negative or zero.
f. Write a program to input a year and display whether that year is a leap year or not.
g. Write a program to input the age of the person and check whether s/he is eligible for the vote or not.
h. Write a program to input three sides of a triangle and determine whether a triangle can be formed or not.
i. Write a program to input three sides of a triangle and determine whether a triangle is equilateral, isosceles or scalene triangle.
j. Write a program to input any character and check it is vowel or consonant.
k. Write a program to mark of any one subject and find grade of that subject.

**Lab 26**

a. 1, 2, 3, …… 20
b. 2, 4, 6, ……. 20
c. 2, 4, 6, ……. upto 20th terms.
d. 1, 4, 9, …… upto 10th terms
e. 2, 8, 18, …… upto 10th terms
f. 100, 95, 90, ……. 0
g. 1, 11, 111, 1111, 11111
h. 1, 22, 333, 4444, 55555
i. 1, 20, 300, 4000, 50000
j. 2, 4, 7, 11, 16, ……. upto 10th terms.
k. 1, 1, 2, 3, 5, 8, …… upto 15th terms.

## Lab 27

1. **String, Mathematical, and Date Methods:**
   a. Write a JavaScript program to use any five string methods to manipulate a string.
   b. Write a JavaScript program to use any five mathematical methods to manipulate a number.
   c. Write a JavaScript program to use any five date methods to display the date in a different format.
2. **Displaying Output in Different Ways:**
   a. Write a JavaScript code to display output in the HTML using document.write().
   b. Write a JavaScript code to display output in an alert box using window.alert().
   c. Write a JavaScript code to display output in the browser console using console.log().
   d. Write a JavaScript code to display output in an HTML element using innerHTML.
3. **Functions for Calculating Average:**
   a. Write a JavaScript function without parameters to find the average of three numbers.

b. Write a JavaScript function with parameters and non-returning values to find the average of three numbers.
c. Write a JavaScript function with parameters and returning values to find the average of three numbers.

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## Lab 28

1. **Basic JavaScript Programs:**
   a. Write a JavaScript program that asks the user for two numbers and displays the sum of those two numbers. (TU 2015)
   b. Write a JavaScript code to create an array that holds the following musical instruments: murchunga, madal, and sarangi. Convert the array to a string and print it. (TU 2015)
   c. Write a JavaScript function that checks if the password and retyped password from two different fields are the same. (TU 2016)
   d. Write a JavaScript code to calculate the difference between two dates given by the user. (TU 2016)
   e. Write a JavaScript function that takes two strings as arguments and checks if they are equal. If they are equal, display the first string in uppercase; otherwise, return "The two strings do not match." (TU 2017)
   f. Write a JavaScript program to add two prime numbers only. (TU 2017)
   g. Write a JavaScript function checkSquare that accepts two arguments, length and breadth. The function should return "The object is square" if the length and breadth are equal, otherwise return "The object is rectangle." (TU 2018)
   h. Write a JavaScript program to add odd numbers from a list. (TU 2019)
   i. Write a JavaScript program that takes a string from the user and displays it in reverse order.

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## Lab 29

1. **Manipulating Styles Using Different Methods:**
   a. Create a web page with two headings and four paragraphs, along with a "Change Style" button. Use methods such as getElementById(), getElementsByClassName(), and getElementsByTagName() to apply style changes after clicking the button.
2. **Manipulating Text Content Using innerHTML:**
   a. Use the "Add New Element" button to replace the existing text contents of two paragraphs with new text.
   b. Use the "Add Element" button to combine the contents of the first two paragraphs and place them into the third paragraph.
   c. Use the "Delete Element" button to remove the text contents of the paragraphs.

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## Lab 30

1. **Changing Images:**
   a. Write a JavaScript code to replace the existing image with a new one when a button is clicked.
   b. Collect two images of bulbs (white and yellow). Display the white bulb as the default image. Create two buttons, "Turn On the Light" and "Turn Off the Light," and write JavaScript code to switch between the yellow and white bulb images accordingly.
2. **Mouse Events:**
   a. Add a mouse event to a paragraph for changing its text color and background color when hovered, and returning to default colors when not hovered.
   b. Add a mouse event to an image for replacing it with another image when hovered, and reverting to the default image when not hovered.

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## Lab 31

1. **Handling HTML Mouse Events:**
   a. Write JavaScript code to handle HTML mouse events such as onclick, ondblclick, onmousedown, onmouseup, onmouseover, and onmouseout.
2. **Handling HTML Window Events:**
   a. Write JavaScript code to handle HTML window events such as onload, onunload, onresize, and onerror.
3. **Handling HTML Form Events:**
   a. Write JavaScript code to handle HTML form events such as onblur, onfocus, oninput, onsearch, and onsubmit.
4. **Handling HTML Keyboard Events:**
   a. Write JavaScript code to handle HTML keyboard events such as onkeydown, onkeypress, and onkeyup.

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## Lab 32

1. **Adding and Removing Elements:**
   a. Write JavaScript code to add new elements (such as headings and paragraphs) when the "Add Element" button is clicked and remove the created elements when the "Remove Element" button is clicked.
2. **Changing CSS Properties:**
   a. Write JavaScript code to apply external CSS properties to web content when the "Change Attribute" button is clicked.

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## Lab 33

1. **Password Validation:**
   a. Write JavaScript code to check if the password and retyped password fields are the same.

2. **Form Validation:**
   a. Create a login form with fields for User Name, User Password, and a Submit button using HTML and CSS. Write JavaScript code to validate the form, ensuring that the user cannot leave fields blank and the password is more than 8 characters.
3. **Online Registration Form:**
   a. Design a form for room booking with fields for Name, Age, Gender, Email, Country Code, Country Name, Submit, and Reset buttons. Write JavaScript code to validate these fields.