Problem No : 01

Problem Name : Write HTML & CSS Code for following table :

A test table with merged cells

	height	weight	Red eyes
Males	1.9	0.003	40%
Females	1.7	0.002	43%

Objectives :

(1) To know how a html construct using table tag.

(2) To know about merged cells in table using html tag and css.

Theory : In this problem we have used these css and html tags :—

(1) The <table> element creats a table with a border, and specifies that the table should take up 50% of the width of its container and be contered using the margin and auto properties.

(2) The first <tr> element within the table defines the second row of the table, which contains a single cell with a rowspan attribute of 2 to merge it with the second column in the next row.

(3) The second <tr> element defines the second row of the table, which contains three cells with th headings "Average Height", "Average Weight", and "Red Eyes". The first two cells are merged using the colspan attribute.

(4) The third and fourth <tr> elements define the third and fourth rows of the table, which conta data for males and females, respectively.

(5) The <th> and <td> elements are use to define table headers and data cells, respectively. The <th elements have a light gray background color, while the <td> elements have a white backgrour color.

(6) The css code within the <style> element defi styles for the various elements in the document. The border - collapse property is used to center the text within cells. The background-color proper ty is used to set the background color of the table headers, and the margin and auto proper ties are used to center the table horizontally o the page.

Problem No : 02

Problem Name : Create a webpage for internal lin
When the user clicks on different links on the
webpage it should go to the appropriate locations /
sections in the same page.

Objectives :

(1) To know about internal links.

(2) To know how internal links works and how
we can use internal links to locate appropriate
locations / sections.

Theory : In this problem, we have used the follow
ing HTML tags :

    `<a>` — Creates a hyperlink.

    `<h2>` — Creates subheading for each sections.

    `<hr>` — Creates a horizontal rule for separate
        sections.

    `<P>` — Creates a paragraph containing a link
        to go back to the top of the page.

    id — Sets a unique identifier for each other
        section. We have used these identifiers
        as targets for the internal links.

    href — Sets the URL of the hyperlink. We have
        used a hashtag (#) followed by the ID
        of the target section to create an inter-
        nal link.

Problem No : 03

Problem Name : Write HTML for the following registration page & use css to beautify it as your own choice.

Personal Details

Name :

E-mail :

Phone Number :

Password :

Gender : ◯ Male ◯ Female

Submit

Objectives :
(1) To know how construct a form using html and css
(2) To know how design a form using css.
(3) To know about submit button.

Theory : We have used HTML and CSS Code for a form that captures personal details such as name, email, phone number, password, and gender. The CSS code sets the styles for the different elements of the form, such as the text alignment, font weight, width, margin, padding, and border radius, among others.

The form is wrapped inside a div with a class "form", which sets the width, display, and margin of the form. The form contains input field for capturing the user's name, email, phone numb and password.

Problem No : 07

Problem Name: Write JavaScript to validate the following fields of the Question 06 registration page.

i) Name (Name should contains alphabets and the length should not be less than 6 characters)

ii) E-mail (should not contain any invalid and must follow the standard pattern name @ domain. Com)

iii) Phone Number (phone Number should contain 10 digits only).

iv) Password (password should not be less than 6 Characters length).

Objectives:

(1) To know about javascript function.

(2) To know about validation of name, email, number and password.

(3) To know about condition operator in Javascript

Theory : In the's problem, The validateForm () is called when the form is submitted. It performs the following validation.

The name field should not be empty and should contain only alphabets with length not less than 6 characters.

The email should not be empty and should have length not less than 6 characters.

The phone number field should not be empty and should contain 10 digits only.

If any of the validations fail, an alert message is displayed and the form submission is prevented. If all the validations pass, a success message is displayed and the form is submitted.

Experiment No:- 05

Experiment Name: Write HTML page named home.html to create a frameset with two vertical frames: the first frame is 250 pixels wide. Fill the first frame (left_vertical) with links.html. Second frame further divided into two horizontal frames (400px, 350px). Fill the top frame (right_top) with ice.html and bottom (right_bottom) with it.html.

Objectives:

(1) To divided webpage into multiple sections.
(2) To display multiple web pages simultanously and reduce page loading time.

Theory: HTML stands for Hyper Text Markup Language. HTML frames are a depricated that allow us to divide a web page into sections or frames, each of which a separate HTML documents. Each fined by a separate <frame> element of the frames are defined element.

Experiment No:- 05

Experiment Name : Write HTML page named home.html to create a frameset with two vertical frames: the first frame is 250 pixels wide. Fill the first frame (left_vertical) with links.html. Second frame further divided into two horizontal frames (400px, 350px). Fill the top frame (right_top) with ice.html and bottom (right_bottom) with it.html.

Objectives :

(1) To divided webpage into multiple sections.

(2) To display multiple web pages simultanously and reduce page loading time.

Theory : HTML stands for Hyper Text Markup Language. HTML frames are a depricated feature that allow us to divide a web page into multiple sections or frames, each of which can contain a separate HTML documents. Each frame is defined by a separate < frame > element, and all of the frames are defined within a < frameset> element.

Problem No – 06

Problem Name: Write a JavaScript for loop that will iterate from 0 to 15. For each iteration, it will check if the current number is odd or even and display a message to the screen.

Objectives:

(1) To know how using a loop and conditional operator we can determine a number's even or odd within a range.

(2) To know how a loop working in javascript.

Theory:

In this problem we developed a script to create a for loop based on the user input. The loop will start from the value entered by the user as the starting point and end at the value entered as the ending point. The loop will iterate over each value between the starting and ending points, and for each value, the script will check if it is over each value, the script will check if it is even or odd. If the value is even, it will print a message saying so, and if it is odd, it will print a message saying so. The messages are ~~describe~~ displayed in the HTML documents using the document.Write() method.

Problem No : Lab 07

Problem Name : Write a PHP prograph to calculate Electricity bill in single page.

Objectives :

(1) To know how to calculate electricity bill in PHP
(2) To know how to show calculated value in web-page.

Theory :

We will learn calculation of electricity bill using PHP if else conditional operator. The electricity bills unit is varies based on unit. In this program we will find out the calculate value of electricity bill.

Conditions :

For units less 50 - Taka - 3.50/unit
For units 51 to 100 - Taka . 4.00/Unit
For units 101 to 200 - Taka . 5.20/unit
For units above 250 - Taka . 6.50/unit

Problem No : 08

Problem Name : Write a simple calculator program using PHP in single page.
Operations :

  * Addition   * Multiplication
  * Subtraction   * Division

Objectives:
(1) To understand basic arithmatic operations.
(2) To enhance user experience.
(3) To add functionally to our website

Theory :

Addition : To addition in PHP program. If we take two variable as $x and $y then the result $z = $x + $y ;

Subtraction : The subtraction in PHP Program. If we take two variable as $x and $y then the result $z = $x - $y ;

Multiplication : The multiplication in php program If we take two variable as $x and $y the the result $z = $x * $y ;

Division : The division in php program, If we take two variables as $x and $y then the result . $z = $x / $y ;

Problem No : 09

Problem Name : Solving the following Task-1 and task-2.

Task-1 : Create a database called student in Xampp MySQL.

Task-2 : Create a table called Semester-Reg in the student having database.

Structure as shown below :

Field Name	Data Type	Requirement
ID	Number	Mandatory and primary key
Name	Text	Mandatory
Session	Text	Must follow the format like 2017-18
Phone Number	Text	Optional
City	Text	For example Pabna
Gender	Tex	Only (Male or Female)

Task-3 : Insert some simple data into Semester-Reg table using PHP Program.

Task-4 : Write a program (PHP) to show the all records of semester-Reg table.

Task-5 : Delete single simple data from semester-Reg table using PHP program.

Task-6 : Updates one sample data of Semester-Reg table using PHP program.

(1) To learn how to create a database in XAMPP MySQL.

(2) To learn how to create a table in database.

(3) To learn how to update, delete, and insert in database using php.

Theory: MySQL is an open source relational database management system. It is commonly used in used webpage application to store and manage data.

PHP is a popular server scripting language used to create dynamic web page. The combination of MySQL and PHP provides an efficient way to manage data in web application.

Problem Name: Solve the following Task-1 and Task-2

Task-1: Create a database called programmer in XAM

Task-2: Create a table called student Reg in program mmer database having the structure as experiment-12.

Task-3: Insert some sample data stu-Reg table including an encryption algorithm to secure the password.

Task-4: Write a pHp program to show the all records of stu-Reg table.

Task-5: Delete single sample from stu-Reg table Using Php Program.

Objectives:

(1) To learn how to create a database in XAMPP MySQL.

(2) To learn how to create a table in database.

(3) To learn how to insert data in table and also to learn encryption algorithm to secure the password.

Theory : XAMPP is an open source software pack-age that provides a local server environment for developing and testing web application. It in-cludes Apache, MySQL, PHP, and Perl. MySQL is a popular open source relational management syste used to manage and store data.