

Lab Assignments:

HTML:

Problem statement-1 : Create your resume page as per the format shown in the figure.

Resume

Abc Pqr

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Educational Qualifications:

Qualification	Institute	University/Board	Marks(%)	Year of Passing
BE (CS)	VJTI	Mumbai University	89%	2003
HSC	Cambridge	ICSE	97%	1999
SSC	Cambridge	ICSE	98%	1997

Skill Set :

Operating System: Windows 9'x,Dos
Language: C/C++
Front End: VB 6.0
DBMS: Oracle 9i

Problem statement-2 : Create a web page to display a list as shown in the figure:

1. Language
 - i. English
 - A. Prose
 - B. Poetry
 - ii. Hindi
 - A. Prose
 - B. Poetry
 - iii. Marathi
 - A. Prose
 - B. Poetry
2. Social Study
 - i. History
 - ii. Geography
3. Science
 - i. Physics
 - A. Part1
 - B. Part2
 - ii. Chemistry
 - A. Organic
 - B. Inorganic
 - iii. Biology
 - A. Botany
 - B. Zoology
4. Maths
 - i. Algebra
 - ii. Geometry

Problem statement-3.a : Create a web page to display tables as shown in the figures below.

User Name	Education	Location
Praveen Kumar	B.Tech	Guntur
Mahendra Dasari	CA	Chennai
Nagaraju Dasari	MCA	USA
Sateesh Alavala	MD	Vizag
Sudheer	B.Tech	Kakinada

3.b

STATE	
East	Orissa
	Bihar
	West Bengal
	Mizoram
West	Maharashtra
	Gujrat
	Karnataka
South	Andhra Pradesh
	Tamil Nadu
	Kerala
North	Jammu & Kashmir
	Himachal Pradesh
	Punjab
	Uttar Pradesh

3.c

Flight Schedule				
Flight Number:	From:	To:	Departure:	Arrival:
BA 3451	Heathrow	Nuremberg	19:20	19:50
BA 1254	Luton	Alicante	19:40	20:50
LH 331	Heathrow	Hamburg	20:00	20:20
Total: 3 flights				

3.d: Create a web page to display tables as shown in the figures below. Clicking on link should lead the user to another document that displays a brief description of the book and review comments.

List of Java Books

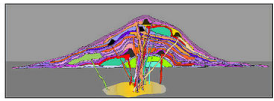
Book Title	Author	Book Price
Core Java	Cay Horstman	400
Beginning Java	Ivar Horton	600
Learning Java	Kishori Shahane	400
Java Cookbook	John Keller	800

Problem statement-4 : Create a Web page on any particular topic. Be sure to bring images in like the sample web page below.


Stratovolcanoes

Strato Volcanoes comprise the largest percentage (~60%) of the Earth's individual volcanoes and most are characterized by eruptions of *andesite* and *dacite* - lavas that are cooler and more viscous than *basalt*. These more viscous lavas allow gas pressures to build up to high levels (they are effective "plugs" in the plumbing), therefore these volcanoes often suffer explosive eruptions.

Strato volcanoes are usually about half-half lava and *pyroclastic* material, and the layering of these products gives them their other common name of composite volcanoes.



Left: This is a schematic diagram of a strato volcano, intended to illustrate the different layers of different materials that comprise them. The purple colors are meant to represent *ash* layers, either the products of fall-out from big eruption clouds or the products of pyroclastic flows. Notice that these ash layers tend to be thin but widespread. The orange colors represent lava flows, and note that some of them have cinder cones associated with them at the *vent*. The green colors are meant to represent lava domes, and notice that they do not flow very far. Each eruption, regardless of what it produces, is fed from the *magma chamber* by a *dike*. Most dikes come up through the center of the volcano and therefore most eruptions occur from a or near the summit. However, some dikes head off sideways to feed eruptions on the flanks.



Right: This is a pit that has been dug into the ground at Cotopaxi, a big strato volcano near Quito, the capital city of Ecuador. The pit is about 2 meters deep and in it you can clearly see a number of ash layers exposed. It is also easy to see that the layers are different - some are coarse and others are fine, some are dark-colored and others are light-colored.

The lava at strato volcanoes occasionally forms *aa*, but more commonly it barely flows at all, preferring to pile up in the vent to form volcanic domes. Some strato volcanoes are just a collection of domes piled up on each other. Strato volcanoes are commonly found along subduction-related volcanic arcs, and the *magma* supply rates to strato volcanoes are lower. This is the cause of the cooler and differentiated magma compositions and the reason for the usually long *quiescent* periods between eruptions. Examples of strato volcanoes include Mt. St. Helens, Mt. Rainier, Pinatubo, Mt. Fuji, Merapi, Galeras, Cotopaxi, and super plenty others.

Problem statement-5: Create the two web pages to display as shown in the figures below

Name	Value
Name	<input type="text"/>
Sex	<input type="radio"/> Male <input checked="" type="radio"/> Female
Eye color	green <input type="button" value="v"/>
Check all that apply	<input type="checkbox"/> Over 6 feet tall <input type="checkbox"/> Over 200 pounds
Describe your athletic ability:	
<input type="text"/>	
<input type="button" value="Enter my information"/>	

5-a:

Username:	<input type="text"/>
Password:	<input type="password"/>
City of	<input type="text"/>
Employment:	<input type="text"/>
Web server:	<input type="button" value="Choose a server"/>
	<input type="radio"/> Admin <input type="radio"/> Engineer <input type="radio"/> Manager <input type="radio"/> Guest
Please specify your role:	
	<input type="checkbox"/> Mail <input type="checkbox"/> Payroll <input type="checkbox"/> Self-service
Single Sign-on to the following:	
	<input type="button" value="Login"/> <input type="button" value="Reset"/>

5-b:

HTML5 + CSS:

Problem statement-1: Create a HTML5 web page that looks like:

Appointment Scheduler

— Personal Information —

Name

Telephone number

E-mail address

Date of birth

— Appointment Request —

What is the reason for your visit?

Current pain level

Preferred date

Preferred time

Problem statement-2: Create a HTML5 web page that looks like: (make use of CSS too)

Step 3: Personal Details

Registration Details

University :
Institute :
Branch :
Degree : ☒ Pursuing ☐ Completed
Average CPI : Upto Th Semester
Experience : Years
Your Website Or Blog :

Step 2

Problem statement-3: Create a HTML5 web page that looks like: (make use of CSS too)

Create Account

First name *

Last name

Email*

Password *

Confirm Password *

Gender:
☐ Male ☐ Female

Hobbies
☐ Music ☐ Sports ☐ Travel ☐ Movies

Source of Income

Income

Upload Profile Picture
 No file chosen

Age

Bio

Create

CSS assignments:

- Set the background color of a page to lightblue.
- Consider this sample data:

Sample Data :

```
<body>
<h1>abc</h1>
<p>This is para-1</p>
<div id="div1">
  <h1>div-1</h1>
  <p>This is para-2</p>
  <h1>div-2</h1>
  <p>This is para-3</p>
```

```

</div>
<h1>xyz</h1>
<p>This is para-4</p>
</body>

```

- Change background color of div to green
- Change text color of the second “h1” to red and background color to gold
- Align only paras within a div tag to right
- Show the last para in bold with font family as Calibri. Display the text in uppercase with a ~~strikethrough effect~~

3. Given the following sample data:

```

<ul>
<li>Marketing</li>
<li>Sales</li>
<li>Technology</li>
<li>Customer Support</li>
</ul>

```

Use CSS to change the background color and draw the border around the element as shown



4. Consider a document with multiple paras.
- Indent 1st line of each para similar to below figure.
 - Also justify the margins of all paragraphs.
 - Provide a paragraph header and align it to center
 - Set the background of document to the CSS logo

Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable.

CSS handles the look and feel part of a web page. Using CSS, you can control the color of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out, what background images or colors are used, layout designs, variations in display for different devices and screen sizes as well as a variety of other effects.

CSS is easy to learn and understand but it provides powerful control over the presentation of an HTML document. Most commonly, CSS is combined with the markup languages HTML or XHTML.

5. Redo the table in Problem statement-3.a of HTML. Use CSS to provide table border and font and background color for table heading

User Name	Education	Location
Praveen Kumar	B.Tech	Guntur
Mahendra Dasari	CA	Chennai
Nagaraju Dasari	MCA	USA
Sateesh Alavala	MD	Vizag
Sudheer	B.Tech	Kakinada

6. Write a HTML page that has a small text content. Highlight a small portion of the content in blue and underline using embedded/instyle CSS. Eg:

This is a piece of text with highlighted elements in it.

- Refer to problem statement-1 (resume) in HTML. Use CSS to give styling to the entire page.
- Consider the following table. Create 2 CSS classes and apply these classes to alternate rows of table to give zebra effect

Employee Name	Department	Salary
Jane Smith	Marketing	\$95,000
John Smith	Technology	\$90,000
Brian Adam	Sales	\$72,000
Mary Jones	Support	\$60,000
Michael Jefferson	Technology	\$85,000

Test It

- Refer to problem statement-2 in HTML. Use CSS to highlight the first item in every list to green (lightgreen)

Javascript Lab Assignments:

Day-1 : JS fundamentals

- Accept an integer value and a message from user and print the message that many number of times.
- Find the greatest of 3 nos
- Write a program to list all even numbers less than or equal to the number n. Take the value of n as input from user. Use while loop
- Write a program that accepts two numbers and a operator like (+, -, *, /) from user and performs the appropriate operation indicated by the operator.
- Write a program to print the multiplication table of a given number up to 10 multiples. Eg for number 2, output should be like

```

2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
2 * 6 = 12
2 * 7 = 14
2 * 8 = 16
2 * 9 = 18
2 * 10 = 20

```

- Write a program to find sum of digits of given five-digit number.
- Create a external file cmi.js that has a function that accepts a distance in inches and prints the corresponding value in cms. Note that 1 inch = 2.54 cm. Test the js file in HTML.
- Write a function pow(x,y) that calculates x^y . Do not use the Math predefined object
- Write Javascript function to find the sum and average of all passed parameters
- Write a program to find the sum of squares of even numbers upto N (accept from user). Make use of function
- Create a web page to calculate the Compound Interest using the formula given below:

$$\text{Compound Interest} = \left[P * \left(1 + \frac{r}{100} \right)^n \right] - P$$

Where:

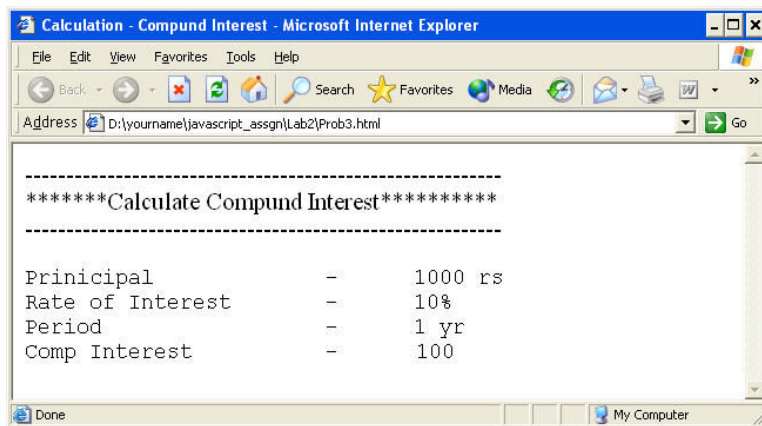
p = Principal,

r = Rate of Interest,

n = period in years

The values used in the example in the following figure are as follows:

P = 1000, n = 1, r = 10



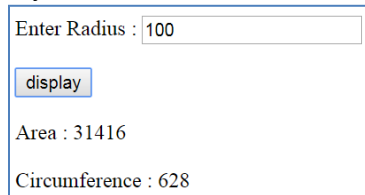
JS objects

12. Create a web page that displays the current date in the format specified as in example below. Also as per current time, suitable greeting should be printed.
Today is Monday, 24 April 2000, Welcome, and Good Afternoon to You.
13. Write a function `getWeekDay(date)` to show the weekday in short format: 'MO', 'TU', 'WE', 'TH', 'FR', 'SA', 'SU'.
Eg : `let date = new Date(2012, 0, 3); // 3 Jan 2012`
`alert(getWeekDay(date)); // should output "TU"`
14. Accept and store names of 5 employees into array and display in sorted order of names
15. Create a custom object for rectangle and circle. Individual Rectangle objects should be able to store dimension, and have methods to print area and perimeter. Individual Circle objects should be able to store radius, and have methods to print area and circumference. Display dimensions, area and perimeter of rectangle and circle objects. Make use of Math pre-defined objects
16. Define a class Rectangle with its length and breadth.
 - Provide appropriate constructor(s), which sets rectangle object with values.
 - Provide methods to calculate area, calculate perimeter and to display all information of Rectangle (dimensions, area and perimeter).
 - Create 5 Rectangle objects by hardcoding all necessary information. Add the objects into an array. Iterate thru the array and for each rectangle object, calculate its area and display its information
17. Create an array that holds 4 employee objects and displays each emp detail in a table. Emp details could be empid, empname and salary. Use for each loop to inspect all properties of each object
18. WAP to create a simple initialized int array with 5 integers. Iterate thru the array and find sum and average of all elements.
19. WAP to create a simple initialized int array with 5 integers. Create a new empty array. Read the contents of initialised array and for every element, find square of the number and store into new array. Use appropriate array methods
20. WAP that has 10 numbers already stored in an array. Find the average of all numbers and then print how many numbers are above average.

21. We have an array that holds many web site names. Eg, www.google.com, www.msn.com, www.amazon.co.in, in.answers.yahoo.com, en.m.wikipedia.com, codehs.gitbooks.io, www.coderanch.com etc. Search for all sites that begin with “www” and display the total number of such sites. Eg for above eg, total is 4

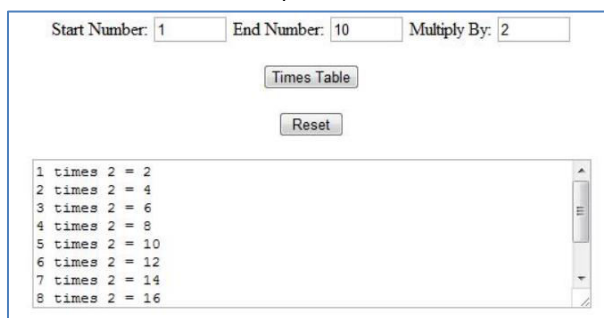
DOM:

22. Create a HTML form that accepts radius and displays the area and circumference of a circle. Make use of Math object



A web form with a text input field labeled "Enter Radius : " containing the value "100". Below the input is a button labeled "display". Under the button, the calculated values are shown: "Area : 31416" and "Circumference : 628".

23. Create a HTML form that accepts start and end values and displays multiplication table



A web form with three input fields: "Start Number: " (value 1), "End Number: " (value 10), and "Multiply By: " (value 2). Below these are two buttons: "Times Table" and "Reset". A text area below the buttons displays the multiplication table for 2, from 1 to 8 times.

1	times	2	=	2
2	times	2	=	4
3	times	2	=	6
4	times	2	=	8
5	times	2	=	10
6	times	2	=	12
7	times	2	=	14
8	times	2	=	16

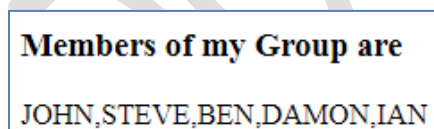
24. Write a program that accepts (from the html form) a positive integer less than 1000 and prints out the sum of the digits of this number.

Enter a +ve no less than 1000: -4
Entered number is out of range

Enter a +ve no less than 1000: 1234
Entered number is out of range

Enter a +ve no less than 1000: 546
Sum of the digits of 546 is 15

25. Assume i have an array of member names. Read the array and display all member names as a string delimited by comma all in uppercase in the current document window



A web page with a heading "Members of my Group are" and a list of names "JOHN,STEVE,BEN,DAMON,IAN" displayed in all caps, separated by commas.

26. Assume we have this content in HTML <body>

```
<body>
<h3> Members of my Group are </h3>
<ol id="list">
</ol>
</body>
```

Also assume we have a array of person names (5 names).
Read from array and populate the above list with member names in bullet form.

Members of my Group are

1. John
2. Steve
3. Ben
4. Damon
5. Ian

27. Create a HTML page that will display the following Registration form and on clicking the button, the details will be listed as shown. Create an object with all details from form and add to an array. Display the contents of the array in a neat tabular manner at bottom of form

Registration form

Username :
Password :
Email :

Username	Password	Email
Shrilata	secret	shri@gmail.com
Anita	ani123	anita@gmail.com

28. Create a HTML table. Apply zebra stripes

29. Consider the below HTML code:

```
<body>
<ui>
  <li>Apple</li>
  <li>Kiwi</li>
  <li>Strawberry</li>
</body>
```

Given the above list, prepend each list item with a index number. Eg, display should be:

```
0:Apple
1:Kiwi
2:Strawberry
```

30. Create a Java Script object that holds an array of at least 3 Java Script objects to store information about accounts:

account no - Numeric
account name - String
account balance - Numeric

Write a Java Script program to perform the following operations:

- A) Display the total balance
- B) Loop thru array and display all account information in neat HTML table

Welcome to Javascript

Acct ID	Acct Name	Acct Bal
1001	Soha	90000
1002	Shrilata	80000
1003	Sunil	100000
1004	Anita	40000

1. Create a IPL ticket booking form to accept spectator details.

Spectator name :

Email Id :

Confirm Mail id :

Select stand :

Platinum Gallery
North West Stand
East Stand
Super Hospitality Stand

Cost of Ticket :

- All text fields are mandatory
- EmailID and Confirm EmailId field values have to be same.
- Cost of ticket will be picked up, based on the stand selected. Use the table provided to select the cost. The field cannot be an editable field.
- If all the data is valid show an alert "All data entered correctly"
- Depending on Stand selected, cost of ticket would be:

Stand	Floor	Charges (In Rs)
Platinum Gallery	Not applicable	25000
Super Hospitality Stand	Not applicable	20000
North West Stand	First floor	6000
East Stand	First floor	3000

- Provide a "Display Ticket details" button that will display spectator details in a neat format in a separate window.
- Make use HTML, HTML5, Javascript, CSS

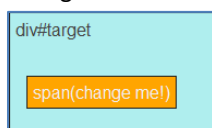
jQuery Lab Assignments:

1. Find all h1 elements that are children of a div element and apply a background to them.

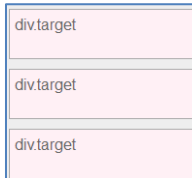
Sample Data :

```
<body>
<h1>abc</h1>
<div id="div1">
  <h1>div-1</h1>
  <h1>div-2</h1>
</div>
<h1>xyz</h1>
</body>
```

2. Set the background color of a page to lightblue.
3. Use the sample data in question1. Change background color of div to green
4. Change the text in the span, a child of '#target'



5. Change background color of the second 'div'.



6. Hide all the input elements within a form. You may use one of the web page created in HTML lab
7. Find the specific option tag text value of a given option. For eg, show the text value associated with second option (Should display Option-2)

```
Sample Data :  
  
<body>  
  <select id="myselect">  
    <option value="1">Option-1</option>  
    <option value="2">Option-2</option>  
    <option value="3">Option-3</option>  
  </select>  
</body>
```

8. Write jQuery code to append a div element (and all of its contents) dynamically to the body element. Insert the following code within HTML <body> tag : <div><h1>jQuery Core</h1></div>
9. Write a jQuery Code to get a single element (li) from a list. Sample data: second list item is "Kiwi"

```
<body>  
<ul>  
  <li>Apple</li>  
  <li>Kiwi</li>  
  <li>Strawberry</li>  
</ul>
```

10. Given the above list, prepend each list item with a index number. Eg, display should be:

```
0:Apple  
1:Kiwi  
2:Strawberry
```

11. Assume a web page having 3 divs, one of them having a class applied. Find which div element has class applied. Sample data: (output would be div1)

```
<body>  
<div id="div1" class="divclass"></div>  
<div id="div2"></div>  
<div id="div3"></div>  
</body>
```

12. Assume we have this content in HTML <body>

```
<body>  
<h3>Members of my Group are</h3>  
<ol id="list">  
</ol>  
</body>
```

13. Also assume we have a array of person names (5 names).
Read from array and populate the above list with member names in bullet form.

Members of my Group are

1. John
2. Steve
3. Ben
4. Damon
5. Ian

14. Create a web page that accepts person name, age and whether employed (true/false) using HTML form elements.
On clicking “add” button, create a JSON obj with the person details. Add (push()) this json into an array.
Provide another button “display” which will iterate thru array and display all persons details in a neat HTML table.