Lab Assignments:

HTML:

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

Resume

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Educational Qualifications:

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

Skill Set :

DBMS:

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

Oracle 9i

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

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

11. Geography

3. Science

i. Physics

A. Part1

B. PartZ ii. Chemistry

A. Organic

B. Inorganic

iii. Biology

A. Botany

B. Zoology

4. Maths

1. Algebra

ii. Geometry

Problem statement-3-a: 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.

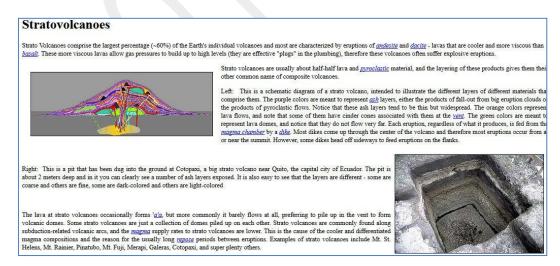
List of Java Books

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

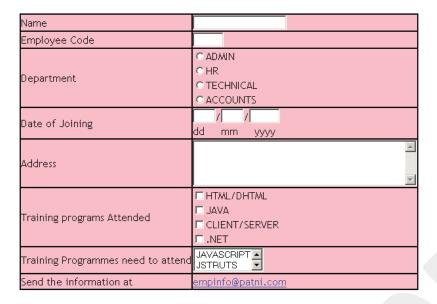
Problem statement-3-b : Apply CSS wherever relevant.



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



Problem statement-5: Create a web page to display a table as shown in the figure below. **Apply CSS wherever relevant.**



Problem statement-6:

r customers. or your cooperation.		
Dial-up DSL High Speed Cable Other		
© Desktop		
 To do work-related activities To do school-related activities For entertainment purposes Other activities 		
Time spent using Internet		
During an average week, how long do you spend online? 0 0-3 Hours 4-6 Hours 7-10 Hours 11-14 Hours 15+ Hours		
a a constant of the constant o		
Last Name:		
Zip Code:		

Problem statement 7 : Create web page to display table as shown in the figure below.

January						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

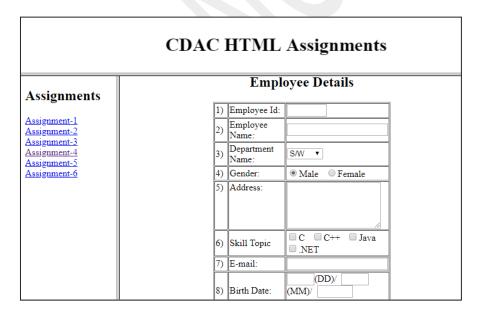
Problem statement 8: Create an online form to gather feedback from the users on problems or difficulties they have faced while purchasing items in a sports website. The information of the client will be sent via email to an email address pre-established in the source code of the online form.

The webpage will be as follows:

- A. The heading will display the name of the members of the group
- B. The body section will have:
 - An introductory sentence, above the form, informing the end user about the aim to the online form and the instructions to fill in out
 - The web form has following inputs:
 - i. Type of problem: technical (e.g. website is down), product do not available, missing information about the product
 - ii. Username (mandatory)
 - iii. Email (mandatory)
 - iv. Location (mandatory)
 - v. Phone (optional)
 - vi. Description of the problem (mandatory)
 - vii. Notification of problem solved (optional)

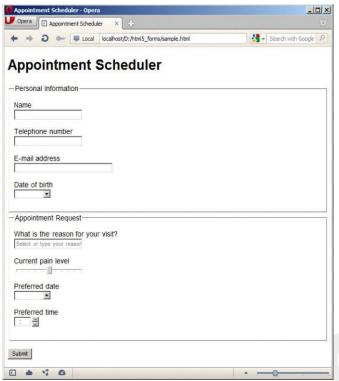
The mandatory field will have a red asterisk next to the text label. Provide a submit button.

Problem statement 9: Create web page to display frames as shown in the figure below.



HTML5:

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

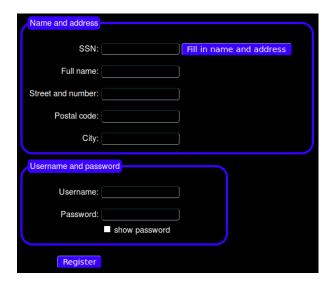


Problem statement-2: Create a HTML5 web page that looks like: (make use of CSS too)



CSS:

Problem statement-1: Create the following web page:



Javascript:

Day-1: JS fundamentals

- 1. Write a program to accept three positive numbers and output the largest of them.
- 2. Accept an integer value and a message from user and print the message that many number of times.
- 3. Write a function 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
- 4. Write a function that accepts two numbers and a operator like (+,-,*, /) from user and performs the appropriate operation indicated by the operator.
- 5. 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 = 182 * 10 = 20
- 6. Write a program to find sum of digits of given five-digit number.
- 7. Write a program min() that takes any number of arguments and returns minimum number in the set of arguments. Do **not** use the Math predefined objet
- 8. Write a function pow(x,y) that calculates x^y . Do not use the Math predefined objet
- 9. Create a web page to calculate the Compound Interest using the formula given below:

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

Where:

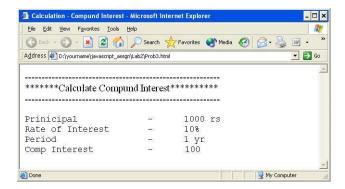
p = Principal,

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



Day-1: JS objects (DO Not Use UI for any of these assignments)

10. 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. Number of days left till end of year : <display>

11. Write a function getWeekDay(date) to show the weekday in short format: 'Mon', 'Tue', 'Wed', 'Thurs', 'Fri', 'Sat', 'Sun'.

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Eg : let date = new Date(2012, 0, 3); // 3 Jan 2012
alert( getWeekDay(date) ); // should output "Tue"
```

- 12. Accept and store names of 6 employees into array and display in sorted order of names.
- 13. Create an array that holds 4 employee objects and displays each emp detail in a table. Employee details could be empid, empname and salary. Use for each loop to inspect all properties of each object
- 14. 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 pre-defined objects
- 15. An array contains a set of 5 words. Write Javascript to reverse each word and arrange the resulting words in alphabetical order. Make use of array functions
- 16. Say, have an array that holds many web site names. Eg, www.msn.com, www.msn.com, www.msn.com<

Day-2:

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



18. Create the HTML form given below. Use JS to manipulate strings. Display the output below the button

Enter String :		
Enter Sub String :		
Replace with String		
O Search substring in main st	g ○ To Upper Case ○ To Lower Case ○ Trim spaces ○ Concatenate ○	replace
Submit Query		

- 1st radio button: search the given sub string (second text box) in main string (first text box)
- 2nd & 3rd radio button: convert one of the strings to upper/lower case
- 4th radio button: trim spaces around first string
- 5th radio button : concatenate strings in first and 2nd text boxes
- 6th radio button : do as shown
- 19. 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

20. 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

Members of my Group areJOHN,STEVE,BEN,DAMON,IAN

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

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<br/><br/><h3> Members of my Group are </h3><br/><br/></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
- 22. Consider a HTML document made of multiple divs. Search all divs that contain the string "training"

23. **Problem statement-2**: Payment calculator

Create a following web page and calculate Payment Information based on Loan Information. Validate Loan information textfields for numbers and Payment Information textfields should be uneditable. The other constraints are as follows:

- Amount of Loan should not be more than 15 lakhs.
- Repayment period should be between 7 yrs to 15 yrs.

Litter Los	ın Information:
 Amount of 	f the loan (any currency):
2) Annual pe	ercentage rate of interest:
3) Repayme	nt period in years:
Compute	Payment Information
4) Your mor	othly payment will be:
5) Your tota	l payment will be:
6) Your tota	l interest payments will be:

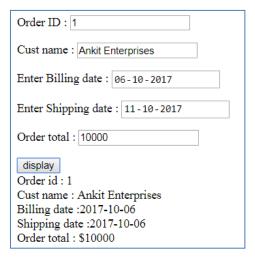
- 24. Create a Login.html page that accepts username and password. Following are the validations required:
 - Both fields are mandatory
 - Username must be between 6 to 10 characters, all alphabetic.
 - Password should be greater than 8 characters, must contain a # and atleast one digit.
- 25. Create a HTML page that accepts order details:

Order ID : 1	
Cust name : Techi	Cust name cannot be < 6 characters
Enter Billing date : 13-10-2017	Billing date cannot be greater than shipping date
Enter Shipping date : 03-10-2017	
Order total : 10000	
display	

Following are validations required:

- All fields are mandatory
- Cust name must be greater than 5 characters.
- Billing date must be lesser than shipping date

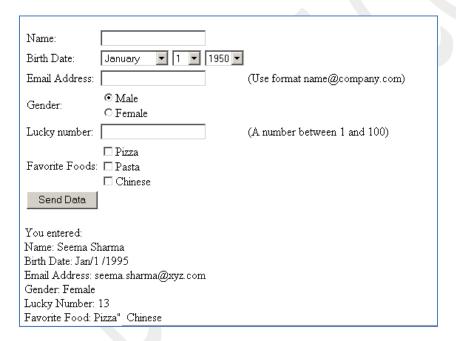
If all goes well, display as follows; On clicking the display button, all form information must be saved into an Order object. The details of this object must be displayed in a new window in a neat tabular fashion(hint : use window.open())



26. Create a HTML page that will display the following form and on clicking the button, the details will be listed as shown. Also create an object with all details from form, show them in new window thru the newly created object. *Replace with HTML5 elements wherever possible*.

The following requirements must be met:

- Name: Required, only alphabets allowed, maximum length is 10.
- Lucky number: Required, must be of 4 digits.
- All other fields are mandatory



Problem statement-2: Use the HTML page created in Problem statement-5.

The following requirements must be met:

- Employee Name: Required, only alphabets allowed, maximum length is 10.
- Employee Code: Required, must be of 4 digits.
- All other fields are mandatory
- Date field must contain valid date
- Add a button "Show details". When user clicks on this button, Create a custom object for the entered information and display it in a new window, and send it to your managers email-id for sanctioning.
- Display appropriate messages incase of invalid data.
- Use the following syntax for sending email:

 Send Mail