School of Computer Science Engineering and Information Systems

WINTER SEMESTER 2024-2025

PMCA601P – FULL STACK WEB DEVELOPMENT LAB

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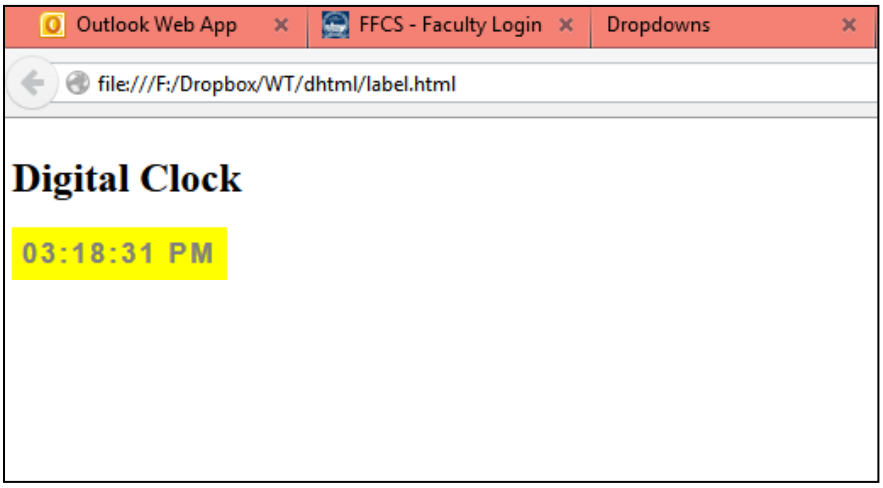
Cycle Sheet 2 - Based on JAVASCRIPT

1. Design a web page which display digital clock as shown below**. Also**



Create a web page containing three divisions.

a) The first division displays a digital clock on the rightmost end.

b) The width of the first division is 100%.The second division and third division lay side by side.

c) The second division has an image slider and third division has a color picker and two list box having font-family and size and a button. When a button is clicked the background color, font and font size should change for a whole page. Use JavaScript to implement the above.

2. Design form which contains text box and button. Once you click the button the message is displayed in the header tag, the text message whatever entered by the user in the textbox.
3. Design a web page which contains three buttons with labelled as red, blue and green. On clicking the button the respective color should displayed asbackground color.
4. Design a HTML page to generate an image slide show using Javascript. First input all the images(minimum of 5 images) you want to add to the slideshow. Add a button to start the slideshow. Repeatedly starting from the first to last, display each image for 5

seconds and then display the next image. Add two buttons to view the previous and next image.

5. Develop an Online Greetings Designer using Javascript and CSS.
Add options to

- **i)** change the image
- **ii)** Position the image (left, background, right)
- **iii)** Edit text
- **iv)** Change font size
- **v)** Change font color

6. Design an online Resume Generator using HTML and Javascript. Design a HTML page where the user can input his personal, academic and experience details. Using Javascript generate the formatted resume.

7. A parking garage charges a $2.00 minimum fee to park for up to three hours. The garage charges an additional $0.50 per hour for each hour or part thereof in excess of three hours. The maximum charge for any given 24-hour period is $10.00. Assume that no car parks for longer than 24 hours at a time. Write a script that calculates and displays the parking charges for each customer who parked a car in this garage yesterday. You should input from the user the hours parked for each customer. The program should display the charge for the current customer and should calculate and display the running total of yesterday's receipts. The program should use the function calculate-Charges to determine the charge for each customer. Use a text input field to obtain the inputfrom the user.

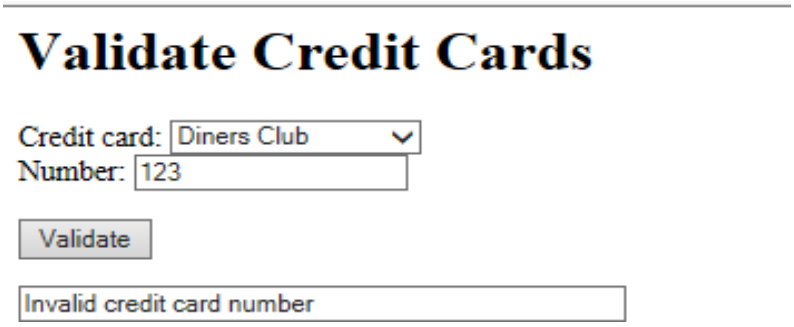
8. Create a script that uses regular expressions to validate credit card numbers.Major credit card numbers must be in the following formats:

- American Express—Numbers start with 34 or 37 and consist of 15 digits.
- Diners Club—Numbers begin with 300 through 305, or 36 and 38 and consists of 14 digits

- Discover—Numbers begin with 6011 or 65 and consist of 16 digits.
- JCB—Numbers beginning with 2131 or 1800 consist of 15 digits, while numbers beginning with 35 consist of 16 digits.

• MasterCard—Numbers start with the numbers 51 through 55 and consistof 16 digits.

• Visa—Numbers start with a 4; new cards consist of 16 digits and oldcards consist of 13 digits.



9. A company wants to transmit data over the telephone, but it is concerned that itsphones may be tapped. All of its data is transmitted as four-digit integers. It has asked you to write a program that will encrypt its data so that the data may be transmitted more securely. Your script should read a four-digit integer entered by the user in a prompt dialog and encrypt it as follows: Replace each digit by (the sum of that digit plus 7) modulus 10. Then swap the first digit with the third,and swap the second digit with the fourth. Then output HTML text that displays the encrypted integer.

Assuming the input is 1234, the output is:

The encrypted number is 0189

Click Refresh (or Reload) to run this script again.

10. BSNL has designed a grievance registration form in HTML with name of customer, address, telecom circle, email and grievance nature in a list box containing huge bills for limited mobile usage, roaming charges and frequent service disruption and a submit button.

i)Write a Javascript DOM event to be enabled when the user submits the form and display the complaint details in a tabular format.

ii)If no grievance is selected, then invoke another DOM event to display " No grievances".
