JavaScript

1. Design a web page to validate credit card numbers per the specifications below. The following tables outline the major credit cards you want to validate and allow prefixes and lengths.

Card Type	Prefix	Length
Master Card	51–55	16
Visa	4	13,16
American Express	34,37	15

2. Design a web page to validate the following according to the standard conditions.
   a. Name
   b. E-Mail-id and
   c. Password.

3. Store some country names and their capitals. Ask the user to select a country and its capital from two lists. If the match is correct, display "Correct answer"; otherwise, display an error message and tell the correct answer.

4. Design the simple Calculator.

5. Design a web page that is self-modifying itself after every minute.

6. Write a code for a web application that accepts the user's birthdate in a textbox and displays the day of the week in a message box at the click of a button.

7. Write a script that inputs a telephone number as a string in the form (555)555-555. The script should use the strings method split to extract the area code as a token and the last four digits of the phone numbers as a token. Display the area code in one test field and the seven-digit phone number in another text field.

8. Develop and demonstrate an HTML file that includes a JavaScript script that uses functions for the following problems:

   a. Parameter: A string
      Output: The position in the string of the left-most vowel
   b. Parameter: A number
      Output: The number with its digits in the reverse order.

9. Write a JavaScript function that takes a string that has lower and upper case letters as a parameter and converts upper case letters to lower case and lower case letters to upper case.

10. Design a web page to perform a survey on four different models of Maruti (Maruti -K10, Zen-Astelo, Wagnor, Maruti- SX4) owned by people living in four metro cities(Delhi, Mumbai, Chennai & Kolkatta). Display tabulated report like format given below:

	Maruti-K10	Zen-Astelo	Wagnor	Maruti-SX4
Delhi				
Mumbai				
Cheenai				
Kolkatta				

Calculate the number of cars of different models in each metro city.