**Course: B.Tech CSE**                                                    **Semester: VI**
**Subject: Full Stack Development**                          **Subject Code: [PCS-693]**

# 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. Create a web page that applies the invert filter to an image if the user moves the mouse over it.

9. Write an HTML Page to scroll the text message from right to left at the status bar of browser window.

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.