

Programme	:	B.Tech.	Semester	:	Winter24-25
Course	:	BCSE203E: Web Programming Lab	Slot	:	TE1/TE2
Faculty	:	Dr. LM Jenila Livingston	Marks	:	10

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Exercise 9: JavaScript

1. The following are the daily temperature recordings of NEWYORK city (In Fahrenheit) 55,62,68,74,59,45,41,58,60,67,65,78,82,88,91,92,90,93,87,80,78,79,72,68,61,59,55,65
Your JavaScript program should count and print the number of HOT days (High Temperature: 85 or higher), the number of PLEASANT days (High temperature: 60-84) and the number of COLD days (High temperature<60) in the city. It should also display the category of each temperature in an HTML Table.
2. A small airline has just purchased a computer for its newly automated reservations system. Write a JavaScript program to assign seats on each flight (capacity: 10 seats). Your program should display the following:
 - If the person types 1, assign a seat in the first-class section (seats 1–5).
 - If the person types 2, assign a seat in the economy section (seats 6–10).
 - When the first-class section is full, your program should ask the person if it is acceptable to be placed in the economy section (and vice versa)

Allot the seats based on the above choices. Print a boarding pass indicating the person's name, seat number and class

Use one-dimensional array to represent the seating chart of the plane. Initialize all the elements of the array to 0 to indicate that all the seats are empty. As each seat is assigned, set the corresponding elements of the array to 1 to indicate that the seat is no longer available.
3. Use Javascript to develop the web page as given in Fig.1 to calculate the Body Mass Index (BMI) and display the adult's status through appropriate popup boxes. For

example, the BMI rate of the men is 21, and then prints the status through a popup box as “Ideal Range” by triggering the event on a “Calculate” button.

Note: Refer Table.1 to get the BMI criteria information.

$$\text{BMI} = 703 * \text{weight} / \text{Height}^2$$

Fig.1. BMI Calculator

Table.1 BMI Criteria

Adults	Women	Men
Anorexia	Less than 17.50	
Underweight	17.51-19.10	17.501-20.70
Ideal range	19.11-25.80	20.71-26.40
Marginally overweight range	25.81-27.30	26.41-27.80
Overweight range	27.31-32.30	27.81-31.10
Very overweight or Obese range	More than 32.30	More than 31.10