

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

**Date: 10/02/2025**

### Exercise 10: JavaScript Functions and Form Selection Methods

1. Assume that you are appointed as Data Analytics Engineer for a hospital. Ages for 8 patients are given below.

P-Id	Name	Age
1	Alen	39
2	Deena	47
3	Diana	21
4	Jack	54
5	Jain	23
6	Kelvin	61
7	Louis	69
8	Rex	49

Write a JavaScript program using appropriate functions to

- (i) sort the data in descending order according to the patient's age and display the same
  - (ii) check whether a particular P-Id is presented in the list
  - (iii) filter the patients by age range.
2. Write a JavaScript program that performs the following actions using **different DOM selection methods**:
    - (a) **Using getElementById:**  
Select the <h1> element and change its text to "Updated Title".
    - (b) **Using getElementsByName:**  
Select the input field with the name="username" and set its value to "John Doe".  
Select all radio buttons with the name gender and print the value of the selected radio button.

(c) **Using `getElementsByTagName`:**

Count and print the total number of `<p>` elements on the page.

Select all `<li>` elements inside the `<ul>` and print their text content to the console.

(d) **Using `getElementsByClassName`:**

Change the background color of all elements with the class `input-field` to `lightblue`.

(e) **Using `querySelector`:**

Select the first `<p>` element with the class `info` and update its text to "This is the first info paragraph".

Select the first radio button with the name `gender` and check it programmatically.

(f) **Using `querySelectorAll`:**

Select all `<p>` elements with the class `info`, loop through them, and print their text content.

Select all checkboxes with the class `hobby`, loop through them, set them as checked and print the checked values.

3. Design an order form as below and implement a JavaScript program to pass the entries to another page and display the receipt.


### Grocery Order Form

Customer Name


Phone Number

Email


Products



☐ Apple \$ 10  kg



☐ Banana \$ 5  kg



☐ Avocado \$ 7  kg

SUBMIT