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 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.