

# Assignment 7 & 8

**Subject:** PPWJ (CSE 3838)

**Session:** Sep 2025 to Jan 2026

**Branch:** CSIT

**Section:** All

**Course Outcomes:** CO4

**Learning Levels:** Remembering (L1), Understanding (L2), Application (L3), and Analysis (L4)

<b>Q No.</b>	<b>Questions</b>	<b>Learning Levels</b>
Q1	<p>A travel booking website asks users to enter their age in a text field. Sometimes users type things like "twenty", "25 years", or "30".</p> <p><b>Task:</b></p> <ul style="list-style-type: none"><li>• Write JavaScript code to validate the input using <code>parseInt()</code> or <code>isNaN()</code> so that only valid numbers are accepted.</li><li>• If the input is invalid, display a message: "Please enter a valid number."</li></ul>	L2, L3
Q2	<p>A company is building a feedback form where users submit their name and feedback through a URL. One user, named "John &amp; Sons", is facing errors because of the &amp; symbol in the URL.</p> <p><b>Task:</b></p> <ul style="list-style-type: none"><li>• Use <code>encodeURIComponent()</code> to fix this issue.</li><li>• Decode it back and display the original input.</li></ul>	L2, L3
Q3	<p>An online store stores items in an array:</p> <pre>let cart = ["Shoes", "Shoes", "Bag", "Watch", "Shoes", "Bag"];</pre> <p><b>Task:</b></p> <ul style="list-style-type: none"><li>• Use <code>filter()</code> and <code>indexOf()</code> to remove duplicate products.</li><li>• Display the unique cart items.</li></ul>	L2, L3

Q4	<p>A classroom has an attendance list:</p> <pre>let students = ["Ali", "Meera", "Ravi", "Ali", "Sara"];</pre> <p><b>Task:</b></p> <ul style="list-style-type: none"> <li>• Check whether all students' names are strings using <code>every()</code>.</li> <li>• Replace the first two names with Guest1 and Guest2 using <code>copyWithin()</code>.</li> </ul>	L2, L3
Q5	<p>A customer writes feedback: “ThIs prODuct IS AmaZinG!”</p> <p><b>Task:</b></p> <ul style="list-style-type: none"> <li>• Write a function to format the feedback so that each word starts with a capital letter.</li> </ul>	L2, L3
Q6	<p>You are building a chat app that must replace the word “stupid” with “”.</p> <p><b>Task:</b></p> <ul style="list-style-type: none"> <li>• Use <code>replaceAll()</code> to clean the message: “This is stupid, really stupid behavior!”</li> </ul>	L2, L3
Q7	<p>A teacher stores student marks:</p> <pre>let marks = [45.7, 89.4, 32.6, 50.5];</pre> <p><b>Task:</b></p> <ul style="list-style-type: none"> <li>• Use <code>Math.round()</code> to round each mark.</li> <li>• Use <code>Math.ceil()</code> to always round up.</li> </ul>	L2, L3
Q8	<p>A banking app needs a 6-digit OTP.</p> <p><b>Task:</b></p> <ul style="list-style-type: none"> <li>• Use <code>Math.random()</code> with <code>Math.floor()</code> to generate a random 6-digit number.</li> </ul>	L2, L3
Q9	<p>A concert is scheduled for “December 31, 2025 23:59:59”.</p> <p><b>Task:</b></p> <ul style="list-style-type: none"> <li>• Write a program that calculates the days, hours, and minutes left from today.</li> </ul>	L3, L4

Q10	A user's birthday is stored as: <pre>let bday = new Date(1998, 6, 15);</pre> <b>Task:</b> <ul style="list-style-type: none"><li>• Output it as "15 July 1998".</li></ul>	L2, L3
	<b>-END-</b>	