

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)

Q No.	Questions	Learning Levels
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>Task:</p> <ul style="list-style-type: none">• Write JavaScript code to validate the input using <code>parseInt()</code> or <code>isNaN()</code> so that only valid numbers are accepted.• If the input is invalid, display a message: "Please enter a valid number."	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 & Sons", is facing errors because of the & symbol in the URL.</p> <p>Task:</p> <ul style="list-style-type: none">• Use <code>encodeURIComponent()</code> to fix this issue.• Decode it back and display the original input.	L2, L3
Q3	<p>An online store stores items in an array:</p> <pre>let cart = ["Shoes", "Shoes", "Bag", "Watch", "Shoes", "Bag"];</pre> <p>Task:</p> <ul style="list-style-type: none">• Use <code>filter()</code> and <code>indexOf()</code> to remove duplicate products.• Display the unique cart items.	L2, L3

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

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