

JavaScript Assignment - 2

Q1. Student Object and JSON Handling

In the Sunbeam Online Student Portal, student data is transferred between frontend and backend using **JSON**.

Task:

1. Create a JavaScript object named **student** with the following properties:

- o **studentId**
- o **fullName**
- o **email**
- o **course**
- o **marks** (array of numbers)

2. Convert the **student** object into a **JSON string** and print it.

3. Convert the JSON string back into a **JavaScript object** and print the result.
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Q2. Student List Using Arrays

The portal maintains a list of registered students.

Task:

1. Create an array named **students** containing **at least 4 student names**.

2. Perform the following operations:

- o Print the list of students
- o Add a new student to the list
- o Remove the first student from the list
- o Print the total number of students
- o Display the last student in the list

Q3. Marks Processing Using Array Methods

The portal processes student marks to generate results.

Given:

```
let marks = [35, 67, 82, 49, 90, 58];
```

Task (Use Array Methods Only)

1. Create a new array containing marks of students who have **passed** ($marks \geq 50$)
2. Create a new array that converts marks into **percentage format**
Example: 82 → "82%"
3. Check and display whether **any student has scored above 85**