

# JavaScript Object Creation and Access Assignment

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### ### Assignment Overview:

This assignment is designed to strengthen your understanding of creating objects in JavaScript, including nested objects, and accessing their properties using both dot and bracket notations.

### ### Objectives:

- Create complex JavaScript objects containing nested objects.
- Access and manipulate object properties using dot and bracket notation.
- Understand the differences and use-cases for dot and bracket notation in object access.

### ### Task:

1. **Create a JavaScript Object**: Define a variable named `studentProfile` that represents a student's profile with the following properties:

- `firstName`: The student's first name.
- `lastName`: The student's last name.
- `class`: Object representing the class the student is in, with properties:
  - `name`: The name of the class (e.g., "Introduction to JavaScript").
  - `teacher`: Object representing the class teacher, with properties:
    - `name`: The teacher's full name.
    - `email`: The teacher's email.
- `grades`: An object where each property is a subject (e.g., "Math", "Science") and the value is

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the grade (e.g., "A", "B").

### 2. **\*\*Accessing Properties\*\***:

- Print the student's full name using dot notation.
- Print the class name using bracket notation.
- Print the teacher's email using a mix of dot and bracket notation.
- Change the grade for one subject and print the updated grades object.

### ### Submission Guidelines:

- Submit a JavaScript file containing your code for the task.
- Ensure your code is well-commented, explaining your approach and use of dot vs. bracket notation.

### ### Assessment Criteria:

- Correct creation of a complex JavaScript object with nested objects.
- Successful access of object properties using both dot and bracket notation.
- Ability to update object properties and reflect those changes.
- Code readability and use of comments to explain your logic.

This assignment will help you master the fundamentals of object manipulation in JavaScript, preparing you for more complex data handling tasks.