JavaScript Basics - Objects

Session 1: Understanding objects (key-value pairs)

Session 2: Adding, updating, and deleting properties

Learning Objectives:

- Understand what JavaScript objects are and how they store data
- Learn how to create objects using key-value pairs
- Learn how to access, add, update, and delete properties

Session 1: Understanding Objects (Key-Value Pairs)

What is an Object?

An object is a collection of key-value pairs.

Each key is also called a property name, and the value can be any data type.

```
Example:
```

```
let person = {
  name: "Sara",
  age: 25,
  isStudent: true
};
```

Accessing Values:

```
console.log(person.name);  // Output: Sara
console.log(person["age"]);  // Output: 25
```

Session 2: Adding, Updating, and Deleting Properties

```
Adding Properties:
person.city = "Prishtina";
person["language"] = "Albanian";
Updating Properties:
person.age = 26;
person["name"] = "Sara Xhuli";
Deleting Properties:
delete person.isStudent;
Example: Full Flow
let book = {
 title: "JS for Beginners",
 author: "John Doe"
};
book.year = 2023; // Add
                                // Update
book.author = "Jane Smith";
delete book.title;
                          // Delete
console.log(book);
// Output: { author: "Jane Smith", year: 2023 }
In-Class Task (Practice)
1. Create an object named car with properties: brand, model, year
```

- 2. Add a new property: color
- 3. Update the model to something else
- 4. Delete the year property
- 5. Print the final object using console.log

Summary:

- Objects store data in key-value format
- Use dot or bracket notation to access values
- Add/update by assigning: object.key = value
- Use delete to remove a property