

30_days_of_Javascript

Day 7: Objects

Tasks/Activities:

Activity 1: Object Creation and Access

- **Task 1:** Create an object representing a book with properties like title, author, and year, and log the object to the console.
- **Task 2:** Access and log the title and author properties of the book object.

Activity 2: Object Methods

- **Task 3:** Add a method to the book object that returns a string with the book's title and author, and log the result of calling this method.
- **Task 4:** Add a method to the book object that takes a parameter (year) and updates the book's year property, then log the updated object.

Activity 3: Nested Objects

- **Task 5:** Create a nested object representing a library with properties like name and books (an array of book objects), and log the library object to the console.
- **Task 6:** Access and log the name of the library and the titles of all the books in the library.

Activity 4: The **this** Keyword

- **Task 7:** Add a method to the book object that uses the **this** keyword to return a string with the book's title and year, and log the result of calling this method.

Activity 5: Object Iteration

- **Task 8:** Use a **for..in** loop to iterate over the properties of the book object and log each property and its value.
- **Task 9:** Use **Object.keys** and **Object.values** methods to log all the keys and values of the book object.

Feature Request:

1. **Book Object Script:** Write a script that creates a book object, adds methods to it, and logs its properties and method results.
2. **Library Object Script:** Create a script that defines a library object containing an array of book objects and logs the library details.
3. **Object Iteration Script:** Write a script that demonstrates iterating over an object's properties using **for..in** loop and **Object.keys** / **Object.values**.

Achievement:

By the end of these activities, students will:

- Create and manipulate objects with properties and methods.
- Understand and use the **this** keyword in object methods.
- Work with nested objects and arrays of objects.
- Iterate over an object's properties using loops and built-in methods.