

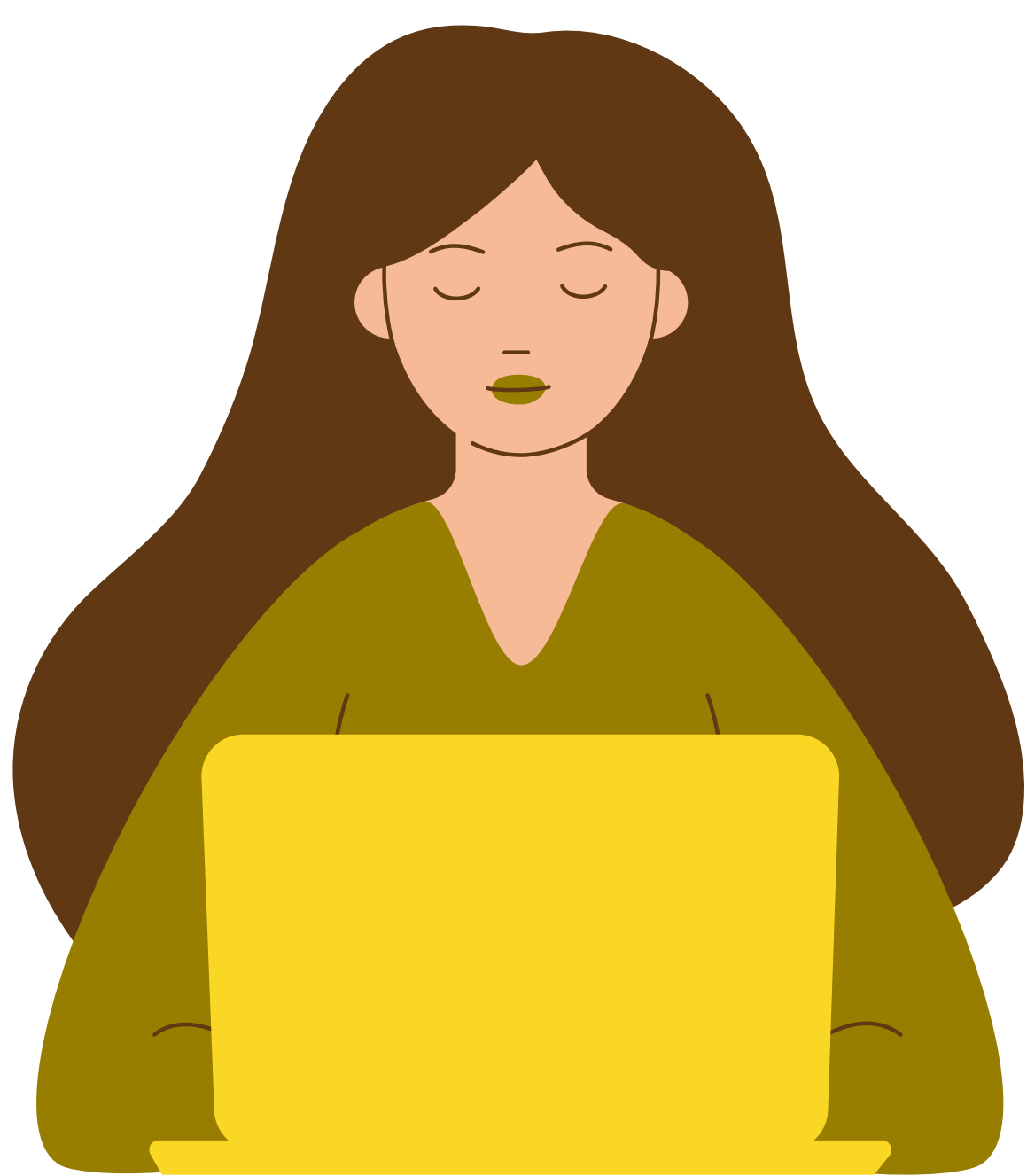
Javascript



DAY 01

Introduction to JavaScript

- What is JavaScript?
- Setting up a development environment.
- Your first JavaScript program.



DAY 02

Variables and Data Types

- Variables and data types. Variable declaration (var, let, const). Type coercion and type conversion.



DAY 03

Operators and Expressions

- Arithmetic, comparison, and logical operators. Expressions and evaluation. String concatenation and template literals.



DAY 04

Control Flow

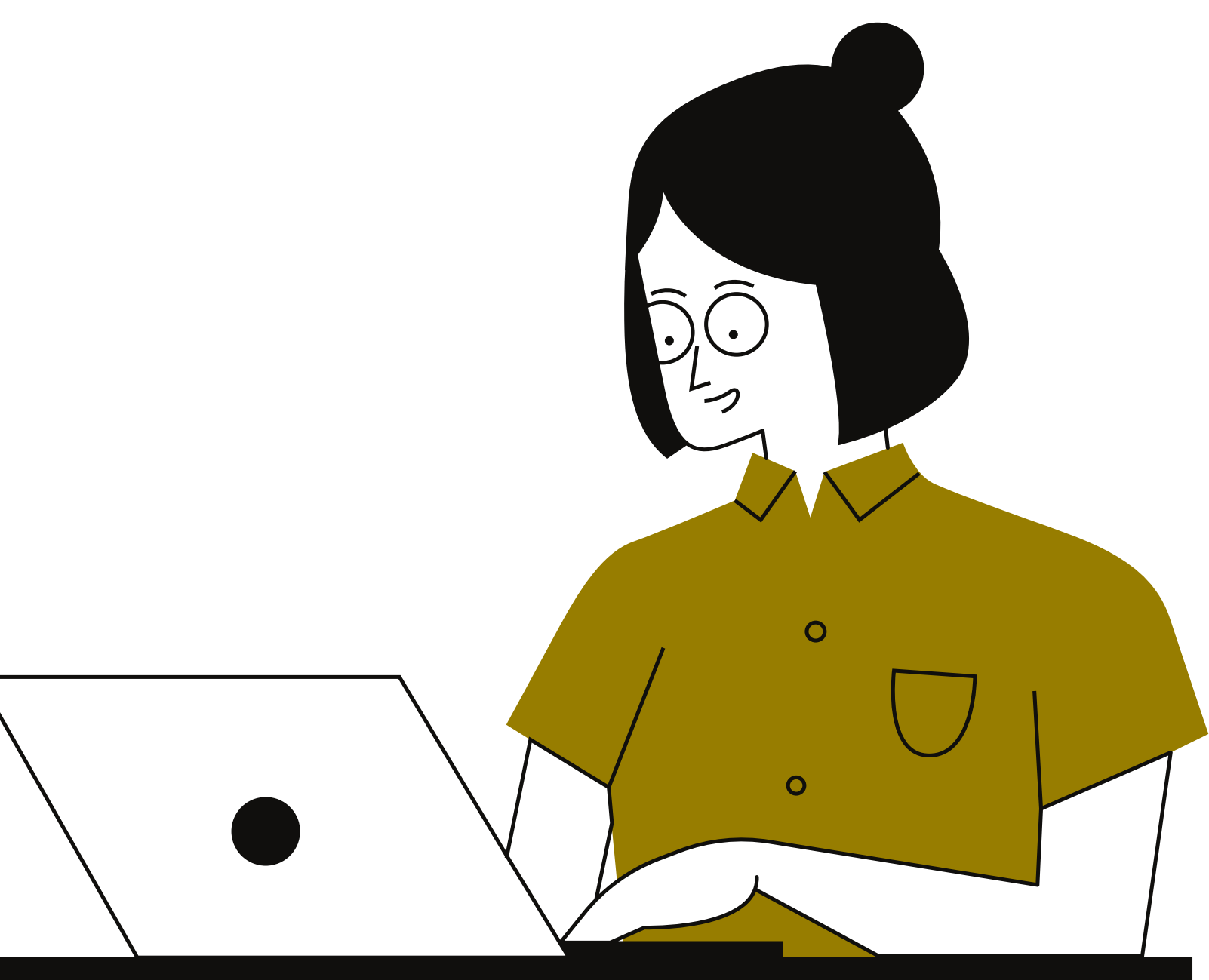
- Conditional statements (if, else if, else). Switch statements. Loops (for, while).



DAY 05

Functions

- Declaring and calling functions. Function parameters and return values. Arrow functions.



DAY 06

Scope and Closures

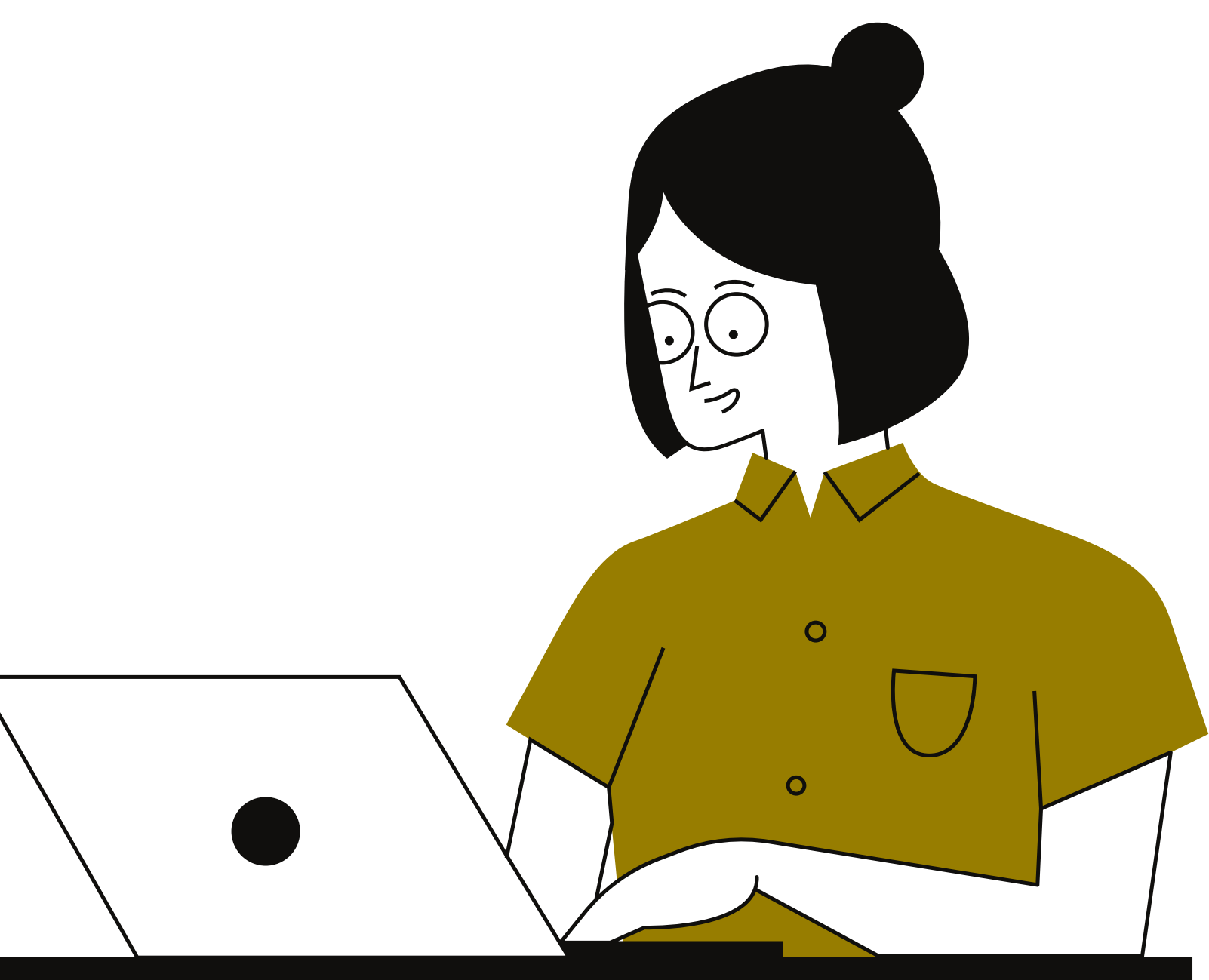
- Variable scope (local and global). Lexical scope and closures. Practical applications of closures.



DAY 05

Functions

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DAY 06

Scope and Closures

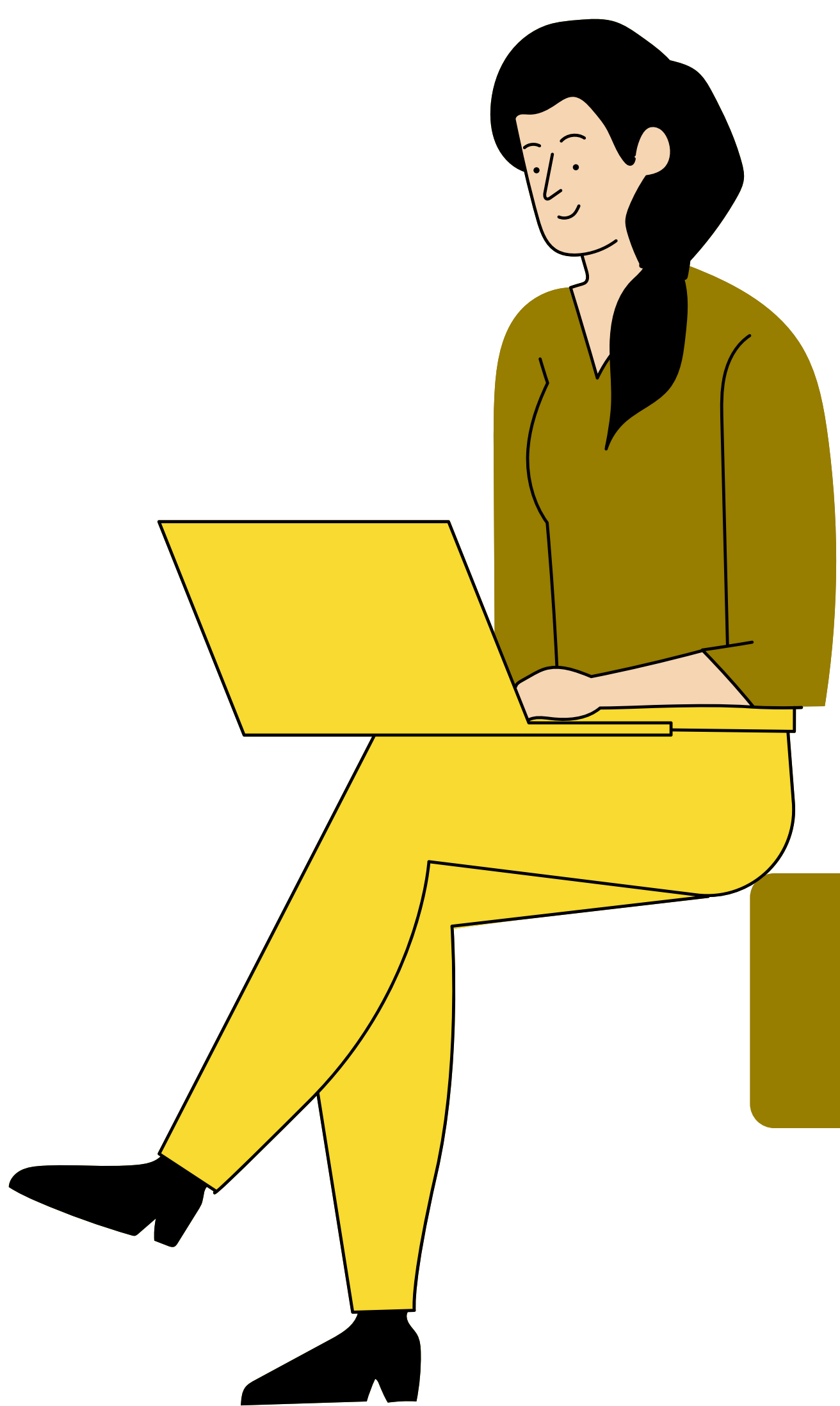
- Variable scope (local and global). Lexical scope and closures. Practical applications of closures.



DAY 07

Arrays

- Creating and manipulating arrays. Array methods (push, pop, shift, unshift, map, filter). Iteration with loops.



DAY 08

Objects and JSON

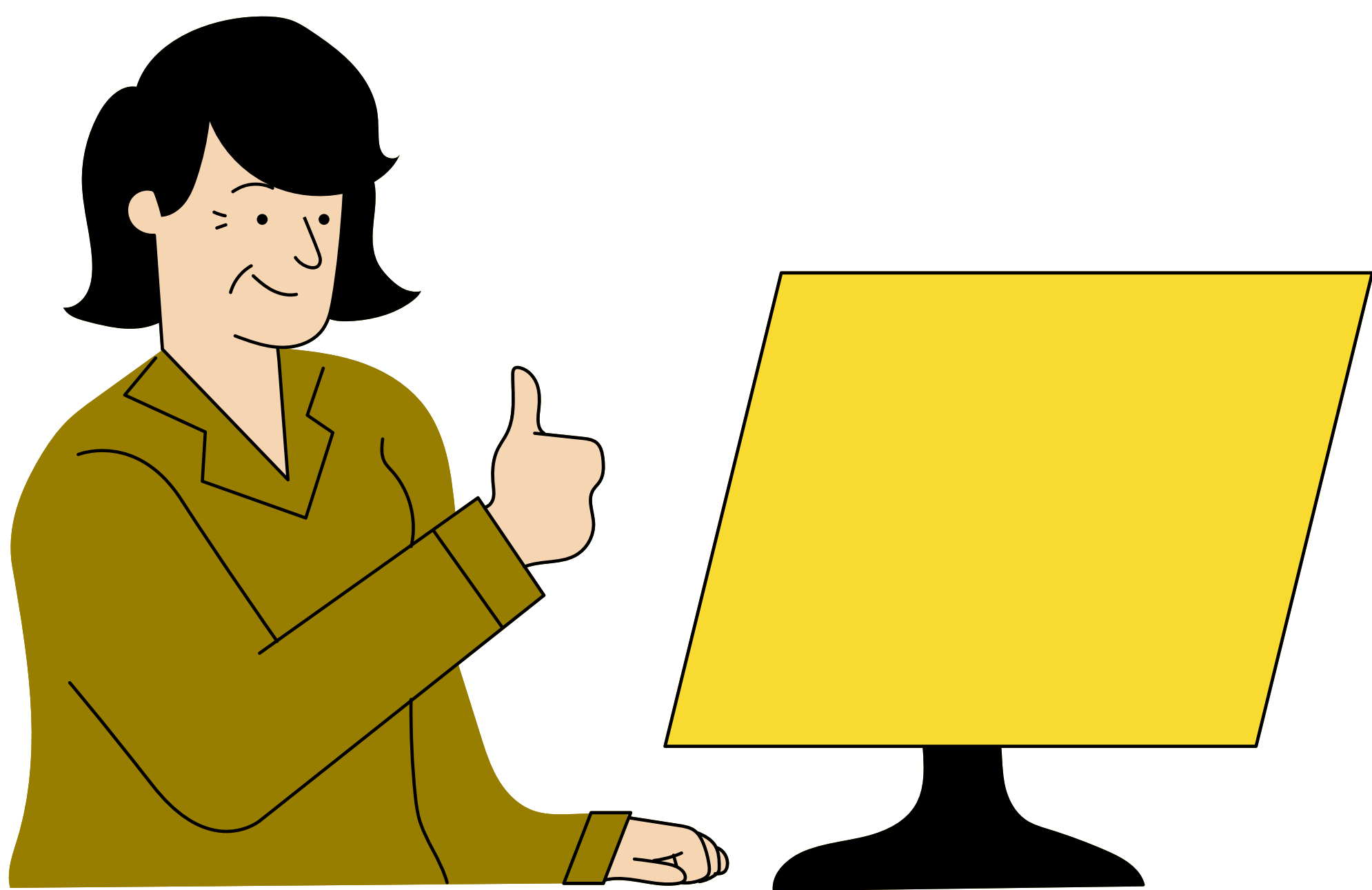
- Creating and working with objects. Object properties and methods. Working with JSON data.



DAY 09

Error Handling

- Handling exceptions with try and catch. Throwing custom errors. Error objects.



DAY 10

Asynchronous JavaScript

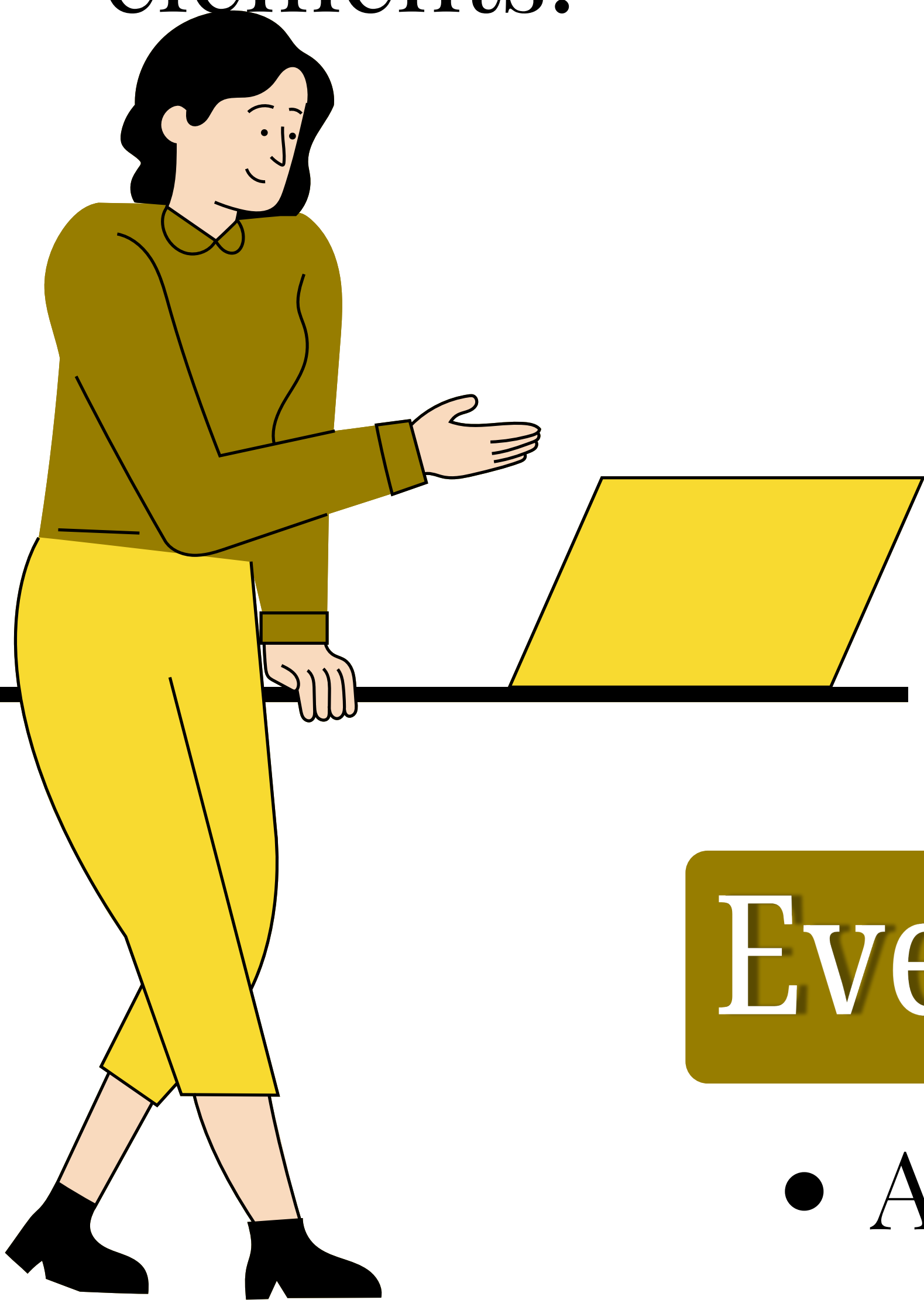
- Introduction to asynchronous programming. Callback functions. Promises for handling asynchronous tasks.



DAY 11

Introduction to the DOM

- Understanding the Document Object Model (DOM). Selecting and manipulating DOM elements.



DAY 12

Event Handling

- Adding event listeners. Event object and event propagation. Handling common events (click, keypress, etc.).



DAY 13

Modifying the DOM

- Changing element attributes and content. Creating and removing elements. Working with forms.



DAY 14

Form Handling and Validation

- Handling form submissions. Form validation using JavaScript. Form elements and data processing.



DAY 15

Local Storage and Cookies

- Making HTTP requests with the Fetch API.
Handling data from API responses.
Introduction to RESTful API concepts.



DAY 16

ES6+ Features

- Arrow functions and template literals.
Destructuring and spread/rest operators.
Classes and modules.



DAY 17

ES6+ Features

- Arrow functions and template literals.
Destructuring and spread/rest operators.
Classes and modules.



DAY 18

Advanced Topics

- Introduction to Node.js and npm.
Exploring front-end libraries and frameworks. Build tools like Webpack.



DAY 19

DAY 20

Project Development

- Apply your knowledge by working on a JavaScript project. Troubleshooting, debugging, and project presentation.



DAY 21

DAY 30

Additional Topics and Advanced Projects

- Cover more advanced JavaScript topics such as closures, promises, async/await, and advanced API usage. Work on advanced projects that apply your JavaScript skills to real-world scenarios.





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