Day 31

"Web Development + Security"

JavaScript Conditionals:

What Are Conditionals?

Conditionals let your program make decisions — they allow your code to run different blocks based on whether something is true or false.

Basic Conditional Types in JavaScript

1. If statement
2. If..else statement
3. If..else if..else statement
4. Temporary operator (short if..else)
5. Switch statement

Example:if..else: Used when you want either one block or another to run.

```
JS script.js > ...
1    let age = 18;
2
3    if (age >= 18) {
4        console.log("You are an adult.");
5    }
6    else {
7        console.log("You are a minor.");
8    }
9
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\FullStackDevelopment\Day31-40\Day31> node .\script.js
You are an adult.
PS E:\FullStackDevelopment\Day31-40\Day31>
```

Example: if..else if..else

```
10    let marks = 75;
11
12    if (marks >= 90) {
13      console.log("Grade: A");
14    } else if (marks >= 75) {
15      console.log("Grade: B");
16    } else if (marks >= 60) {
17      console.log("Grade: C");
18    } else {
19      console.log("Grade: Fail");
20    }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS E:\FullStackDevelopment\Day31-40\Day31> node .\script.js
Grade: B
PS E:\FullStackDevelopment\Day31-40\Day31>
```

Example: shortcut way

```
22    let age = 20;
23    let result = (age >= 18) ? "Adult" : "Minor";
24    console.log(result);
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS E:\FullStackDevelopment\Day31-40\Day31> node .\script.js
Adult
PS E:\FullStackDevelopment\Day31-40\Day31>
```

Example: switch statements

```javascript
26    let day = "Monday";
27
28    switch (day) {
29      case "Monday":
30        console.log("Start of the week!");
31        break;
32      case "Friday":
33        console.log("Weekend is near!");
34        break;
35      default:
36        console.log("Just another day.");
37    }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS E:\FullStackDevelopment\Day31-40\Day31> node .\script.js
Start of the week!
PS E:\FullStackDevelopment\Day31-40\Day31>
```

JavaScript Comments:

What Are Comments in JavaScript?

Comments are pieces of text in your code that the JavaScript engine completely ignores when running. They are used to:

- Explain code logic
- Make notes for future reference
- Temporarily disable parts of code (for debugging)
- Help others understand your code

--The End--