Student Activity: Major and Desired Salary Script

Title: JavaScript Activity: Using Logical Operators in If Statements

Introduction:
In this self-directed activity, you'll create a JavaScript program that asks the user for their major and desired salary. You'll practice using `prompt()`, logical operators (`&&`, `||`), `.includes()`, and `if/else` statements to display personalized messages based on the user's input.

Step 1: Ask for the User's Major

Instructions:
Use the `prompt()` function to ask the user for their major and store it in a variable called `major`. Convert the input to lowercase so comparisons aren't case-sensitive.

Code to add:

```javascript
const major = prompt("What is your major?").toLowerCase();
```

Step 2: Check the Major Using If and Logical Operators

Instructions:
Use an `if` statement with the `||` (OR) operator to check if the major is `"computer science"` or `"software development"`. Display a message if it matches.

Code to add below the prompt:

```javascript
if (major === "computer science" || major === "software development") {
    console.log("Your major involves a lot of problem-solving and technical skills!");
}
```

Step 3: Add Another Condition with `.includes()`

Instructions:
Check if the major includes the word `"arts"` or is `"english"`. Use another `else if` statement and display a message about creativity and communication.

Code to add:

```javascript
else if (major.includes("arts") || major === "english") {
    console.log("Your major focuses on creativity, communication, and critical thinking!");
}
```

Step 4: Add a Default Message

Instructions:
Add an `else` statement that displays a generic message for any other majors.

Code to add:

```
else {
    console.log("That's an interesting major! I hope you enjoy it.");
}
```

Step 5: Ask for Desired Salary

Instructions:
Prompt the user to enter their desired salary and store it in a variable called `desiredSalary`.

Code to add:

```
let desiredSalary = prompt("What is your desired salary?");
```

Step 6: Check Salary and Major Together

Instructions:
Use `if` with `&&` (AND) and `||` (OR) to display a message if the user's salary is greater than 50,000 **and** their major is `"computer science"` or `"software development"`.

Code to add:

```
if (desiredSalary > 50000 && (major === "computer science" || major ===
"software development")) {
    console.log("You have a technical mind!");
}
```

Step 7: Test Your Script

- Run your program in the browser console or Replit.
- Try different combinations of majors and salaries to see the messages.
- ☑ Checkpoint: Does each condition display the correct message?

Step 8: Challenge

Extend the program:

- Add more majors (like `"biology"` or `"education"`) with custom messages.
- Add more salary ranges with different messages (e.g., `<40000`, `40000-50000`).

Example

```
else if (major === "biology") {
    console.log("You're exploring the science of life!");
}
else if (major === "education") {
    console.log("You're preparing to inspire and teach others!");
}
```

Full Script Example

```
// Allison Hanna
// 03/15/25
// Practice if else and logical operators

const major = prompt("What is your major?").toLowerCase();

if (major === "computer science" || major === "software development") {
    console.log("Your major involves a lot of problem-solving and technical
skills!");
}
else if (major.includes("arts") || major === "english") {
    console.log("Your major focuses on creativity, communication, and
critical thinking!");
}
else {
    console.log("That's an interesting major! I hope you enjoy it.");
}

let desiredSalary = prompt("What is your desired salary?");

if (desiredSalary > 50000 && (major === "computer science" || major ===
"software development")) {
    console.log("You have a technical mind!");
}
```

Reflection

Write one or two sentences about what you learned using `if`, `else if`, logical operators (`&&`, `||`), and `.includes()`:

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