**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:**

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:**

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:**

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**

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// 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():