**JavaScript Activity: Exploring If/Else if Statements**

## Student Activity: Exploring If/else if Statements and Prompts

**Introduction:**  
In this self-directed activity, you’ll create a JavaScript program that asks the user for their major and displays a message based on what they type. You’ll practice using prompt(), if statements, and comparison operators.

### Step 1: Ask for the User’s Major

**Instructions:**  
Start by asking the user what their major is using the prompt() function. Store their answer in a variable called major.

**Code to add:**

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

### Step 2: Add the First If Statement

**Instructions:**  
Check if the user typed "computer science". If they did, display a message about learning tech skills.

**Code to add below the prompt:**

if (major.toLowerCase() === "computer science") {

console.log("You're learning valuable skills for the tech industry!");

}

Why do we need .toLowerCase?

Some people enter form fields with a “C” and some with a “c”. JS can only compare strings well when they are the same case, so we need to convert all answers to lowercase.

### Step 3: Add More Conditions

**Instructions:**  
Add else if statements for "engineering" and "arts" with custom messages.

**Code to add below the first if statement:**

else if (major.toLowerCase() === "engineering") {

console.log("Your major will equip you to solve challenging problems!");

}

else if (major.toLowerCase() === "arts") {

console.log("You're exploring creativity and expression!");

}

### Step 4: Add a Default Message

**Instructions:**  
Add an else statement that displays a message for all other majors.

**Code to add:**

else {

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

}

### Step 5: Test Your Script

* Run your program in the browser console
* Try typing different majors to see the results.
* ✅ Checkpoint: Does each major display the right message?

### Full Script Example

// Prompt user for their major

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

// Check the major and display a message using if statements

if (major.toLowerCase() === "computer science") {

console.log("You're learning valuable skills for the tech industry!");

}

else if (major.toLowerCase() === "engineering") {

console.log("Your major will equip you to solve challenging problems!");

}

else if (major.toLowerCase() === "arts") {

console.log("You're exploring creativity and expression!");

}

else {

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

}

### Reflection

Write one or two sentences about what you learned using if and else if statements:

### Challenge

Add more majors and custom messages!

For example, add one for "biology" or "education".

else if (major.toLowerCase() === "biology") {

console.log("You're diving into the science of life!");

}

else if (major.toLowerCase() === "education") {

console.log("You’re preparing to inspire and teach others!");

}