

# Girls Code Club

## Conditionals

### ACTIVITY: WHERE IN THE WORLD IS TECHNOLOGY?

Spend the next **5 - 10 minutes** brainstorming about all the things in your life that use technology. Fill up this page!

Example(s): Drive-through ordering and Google Docs!

## ACTIVITY: HOW MIGHT YOU USE TECHNOLOGY?

What do you want to be when you grow up? If you have a few different ideas, feel free to write them all down!

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Spend the next **5 - 10 minutes** brainstorming how you might use technology in your job.

[illegible]

## SHERO: ADA LOVELACE



As a group, we'll watch a video about Ada Lovelace!

[https://www.youtube.com/watch?v=uOkmylCUW\\_c](https://www.youtube.com/watch?v=uOkmylCUW_c)

What is one thing you learned or liked about Ada Lovelace?

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The JavaScript cohorts will continue with an Ada Lovelace activity.

[https://cdn.shopify.com/s/files/1/1532/7563/files/Ada\\_Lovelace - How to write a program\\_bcd994eb-a2c2-4bac-ac2f-645fcfd2e877.pdf?v=1601576373](https://cdn.shopify.com/s/files/1/1532/7563/files/Ada_Lovelace_-_How_to_write_a_program_bcd994eb-a2c2-4bac-ac2f-645fcfd2e877.pdf?v=1601576373)

## SHERO (ADVANCED COHORT): MEGAN SMITH



Born in 1964 (and still alive today), Megan Smith is an American engineer. She served as “Assistant to the President” when President Barack Obama was in office, and was also the third (and first female) CTO for the United States.

CTO means “Chief Technology Officer”. CTOs are responsible for learning, understanding, and breaking down new technologies of coding languages for their team. Their goal is to keep their company relevant while supporting the developers that work with them.

She was previously a Vice President at Google, where she co-created “WomenTechmakers”. Megan has quite a few incredible accomplishments in her past, including launching a campaign called #FindtheSentiments, focusing on the Declaration of Sentiments written to declare Women’s Rights. Now, she’s the founder and CEO of Shift7, which works on tech-forward inclusive innovation for faster impact on economic, social and environmental challenges. In 2017, she also launched a “Tech Jobs Tour” aimed at promoting diversity in technology careers, visiting over 20 United States in an effort to empower coders. Do you remember our conversation about DEIB? This is what she was about!

## CODING EXERCISE: CONDITIONALS

Conditionals help to tell our code what action to take, only if the situation is true. Today, we're going to write some conditionals using our friends `console.log( )` if we're in the JavaScript Cohort, or `print( )` if we're in the Python Cohort.

### PYTHON CODE .

```
1 clothing = ""
2 temp = 0
3
4 if temp < 40:
5     clothing = "jacket & gloves"
6 elif temp >= 40 and temp < 55:
7     clothing = "jacket"
8 elif temp >= 55 and temp < 60:
9     clothing = "sweater or cardigan"
10 else:
11     clothing = "shirt"
12
13 print(f'When it\'s {temp} degrees, I wear a {clothing} to go outside.')
14
```

### JAVASCRIPT CODE .

```
1 var clothing = ""
2 var temp = 0
3
4 if (temp < 40) {
5     clothing = "jacket & gloves"
6 } else if (temp >= 40 && temp < 55) {
7     clothing = "jacket"
8 } else if (temp >= 55 && temp < 60) {
9     clothing = "sweater or cardigan"
10 } else {
11     clothing = "shirt"
12 }
13
14 console.log(`When it's ${temp} degrees, I wear a ${clothing} to go outside.`)
```

Now that you've written your code, what is output into your console?

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For each set of instructions below, run your code and write what is output in your console.

**Reminder (JavaScript):** SAVE your work using your username. As you make changes, give CodePen a second to refresh, and you'll see output in your CONSOLE.

**Reminder (Python):** To see changes, click RUN.

Change **temp** to **20**.

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Change **temp** to **40**.

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Change **temp** to **58**.

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Change **temp** to **90**.

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## CODING EXERCISE: CONDITIONALS CONTINUED

Let's build your own conditional! Use the worksheet below to plan out your code, before writing it.

### GOAL

What do you want your conditional to decide? Your output will **depend** on a variable outside of your conditional.

Ideas:

- Depending on your mood, print out the music that you listen to.
- Depending on the weather, print out the sport you would play.
- Depending on a dollar amount, print out the fun activity you could do.
- Depending on the time of day, print out the food you would eat.

**Depending on** \_\_\_\_\_ ,

**print out** \_\_\_\_\_ .

Use the back of this page to plan out what your conditionals will look like to satisfy your idea.

**Variable name** (what does your conditional depend on?):

\_\_\_\_\_

**Variable's initial value:** \_\_\_\_\_

**If:** \_\_\_\_\_

**Do this:** \_\_\_\_\_

**Else if** \_\_\_\_\_

**Do this:** \_\_\_\_\_

**Else if** \_\_\_\_\_

**Do this:** \_\_\_\_\_

**Else if** \_\_\_\_\_

**Do this:** \_\_\_\_\_

**Else** \_\_\_\_\_

**Do this:** \_\_\_\_\_

Now write your conditional in code! Use our earlier exercise as an example.