#### **Introduction to Conditional Statements**

# Conditional statements help the program make decisions. They check whether a condition is True or False and act accordingly.

In Python, the most common conditional keywords are:

- if checks if a condition is true.
- else runs when the condition is false.
- elif used when there are multiple conditions.

## **Example:**

```
if temperature > 30:
    print("It's Hot!")
elif temperature > 20:
    print("It's Warm.")
else:
    print("It's Cold!")
```

Here, the program checks one by one until it finds a true condition.

# **Coding part**

Here is the code you can see if you face any doubt while doing this task

```
Mode New Load Save Serial Plotter Zoom-in Zoom-out Theme Check Tidy Help Continued 

from adafruit_circuitplayground import cp import time

light_value = cp.light print("Light value:", light_value)

filight_value < 50:
    cp.pixels.fill((255, 255, 0)) # Yellow light ON if low light else:
    cp.pixels.fill((0, 0, 0)) # Lights OFF if bright
```

### Save and Run

- Save as **code.py** on the CPX drive.
- Open the **Serial Monitor** in Mu to see the light value printed.
- Try covering the CPX light will turn **ON** when the sensor detects less light.
- If light value is high, LEDs will remain **OFF**.
- Change the number in the if condition (like 40, 60, 80) and test how sensitivity changes.