

Micro:bit Programming

Algorithm

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Sequence

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Comment

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Repetition

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Iteration

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Loop

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While Loop

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Selection

Micro:bit Programming - selection

Selection is where a decision is made over what to do next in a program. This selects a block of code to do based on something that happens.

This uses an **if statement**.

```
1 # Button press program
2 from microbit import *
3
4
5 while True:
6     # button a is pressed
7     if button_a.is_pressed():
8         display.show(Image.SNAKE)
9         sleep(2000)
10        display.clear()
11
12    # button b is pressed
13    if button_b.is_pressed():
14        display.show(Image.COW)
15        sleep(2000)
16        display.clear()
17
18
```

Micro:bit Programming - selection

Using the **Python Editor**...

Write a program which uses buttons to change an output

Challenges:

1. Work out how to control each button
2. Use a **variable** to count button presses
3. Figure out how buttons work