Micro:bit Programming

Algorithm

Micro:bit Programming

Sequence

Micro:bit Programming

Comment

Micro:bit Programming

What does line 1 do?

```
1  # display message shape
2  from microbit import *
3
4
5  while True:
6      display.scroll("Cow")
7      display.show(Image.COW)
8      sleep(2000)
9  |
```

Micro:bit Programming

What does line 5 do?

```
1  # display message shape
2  from microbit import *
3
4
5  while True:
6      display.scroll("Cow")
7      display.show(Image.COW)
8      sleep(2000)
9
```

Micro:bit Programming

```
1  # display message shape
2  from microbit import *
3
4
5
6  display.scroll("Cow")
7  display.show(Image.COW)
8  sleep(2000)
9
```

Micro:bit Programming - repetition

Repetition is where a block of code is executed more than once

This is often called using a **loop**

What does the **while loop** do?

Micro:bit Programming - repetition

Here's an algorithm:

DISPLAY a duck

REPEAT forever:

    DISPLAY A COW

    DISPLAY A SNAKE

Micro:bit Programming - repetition

Using the **Python Editor**…

Adapt a program to display a sequence of shapes on a continual loop

Challenges:

1. Work out how to control the gap between images
2. Figure out how short a gap is usable
3. Work out how to clear the screen for a time