REPEATING



DESCRIPTION

Like repeating the same steps to every item on a conveyor belt

'FOR' LOOPS

Type this example, using **Enter** to start a new line and **Tab** to indent lines. Enter an empty line (deleting any tabs) to finish the procedure.

This for loop repeats three indented steps, with pos given a new value each time, starting at 0 and stopping at 8. What will it do when you run it?

```
for pos in range(0, 8):
    clearPixels()
    setPixel(pos, red)
    sleep(1)
```

'WHILE' LOOPS

This while loop checks if a condition is true then repeats the indented steps.

1==1 checks if 1 is the same value as1. This will always be true so the steps will repeat forever.

What effect will these steps create?

```
clearPixels()
while 1 == 1:
    setPixel(0, red)
    sleep(1)
    setPixel(0, blue)
    sleep(1)
```

USING A TEXT EDITOR

To make changes more easily, keep your code in a python-aware text editor like Geany. After you've made any changes you can copy-paste it into the REPL to run it.

PASTE MODE

First copy the text of your code with the mouse. Then begin paste mode in the REPL by pressing *CTRL+E*. Paste your code with the mouse. Finally, end paste mode to run your script by pressing *CTRL+D*.



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