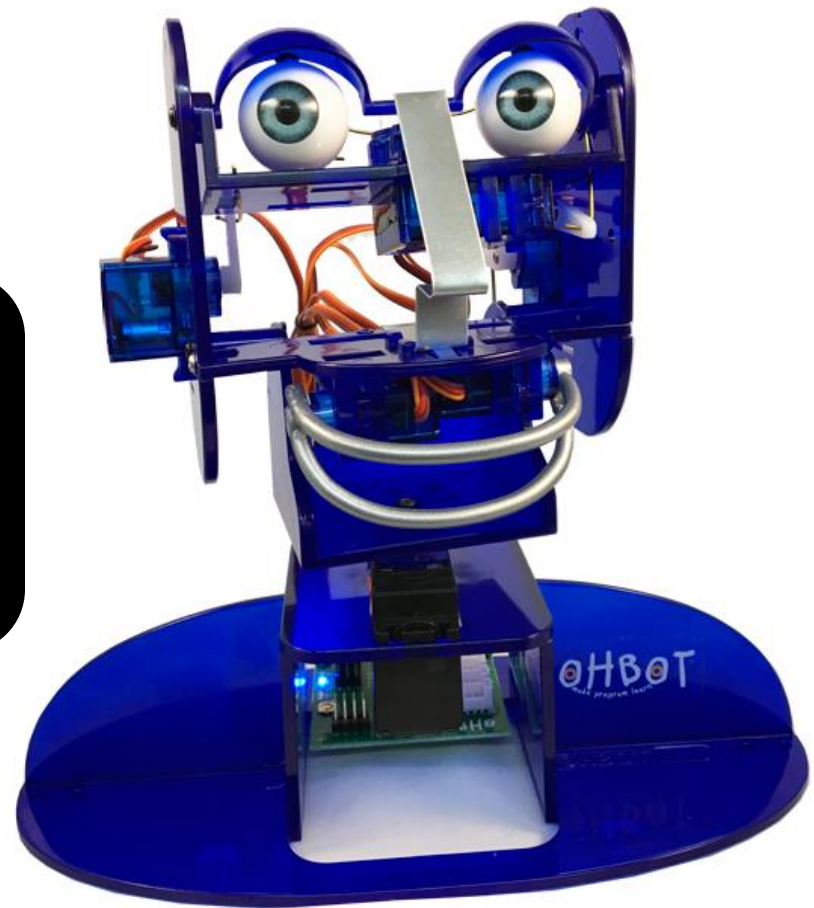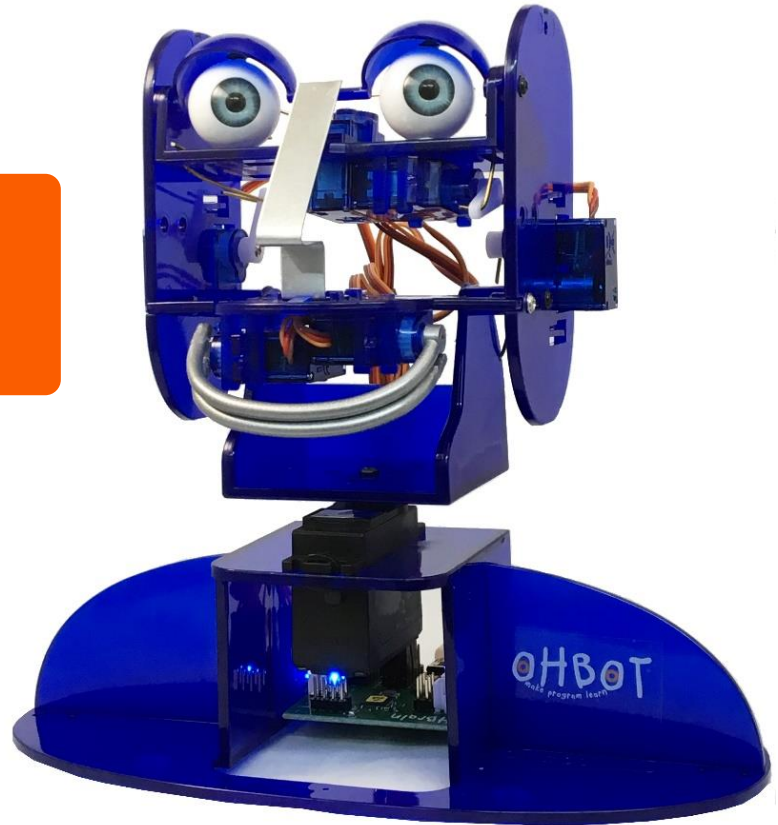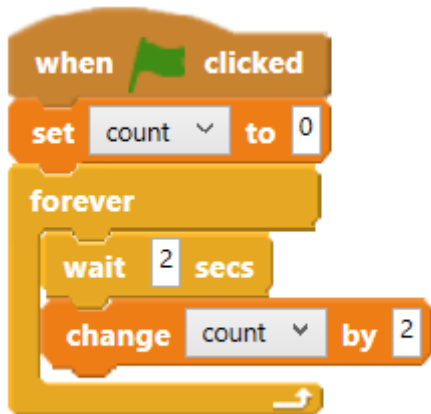# Lesson 4 Repeat Until

I can program a robot to speak the value of a variable

I can program a robot to count until a condition is true

Activity 1
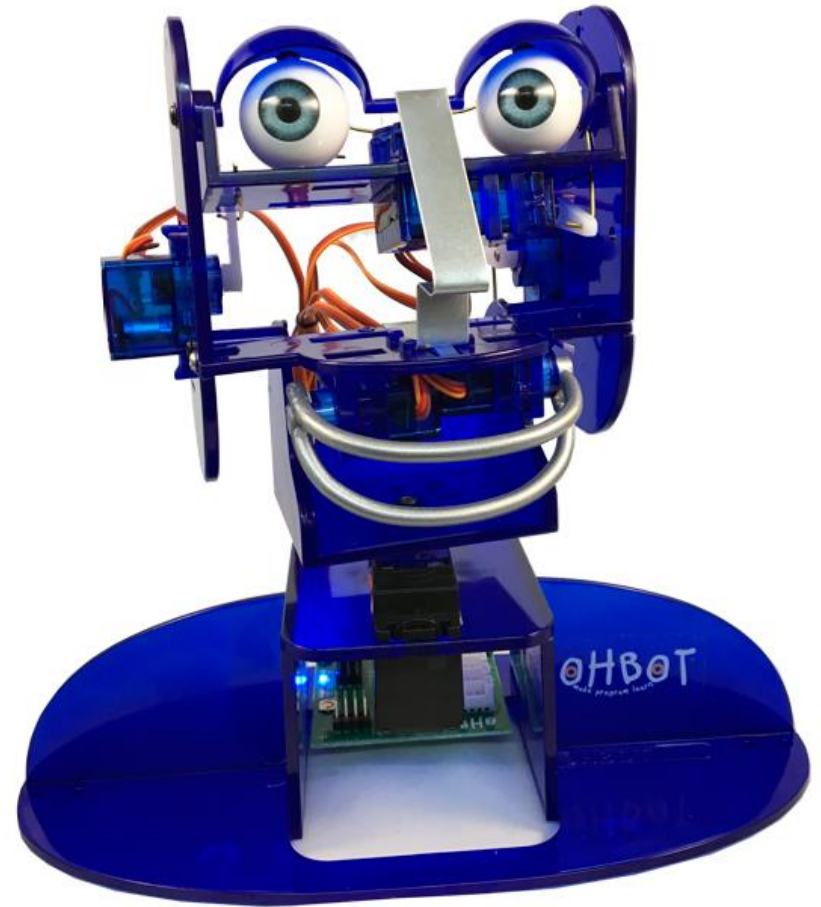
This code sequence makes Ohbot count in twos. Can you make Ohbot speak the numbers as it counts up?
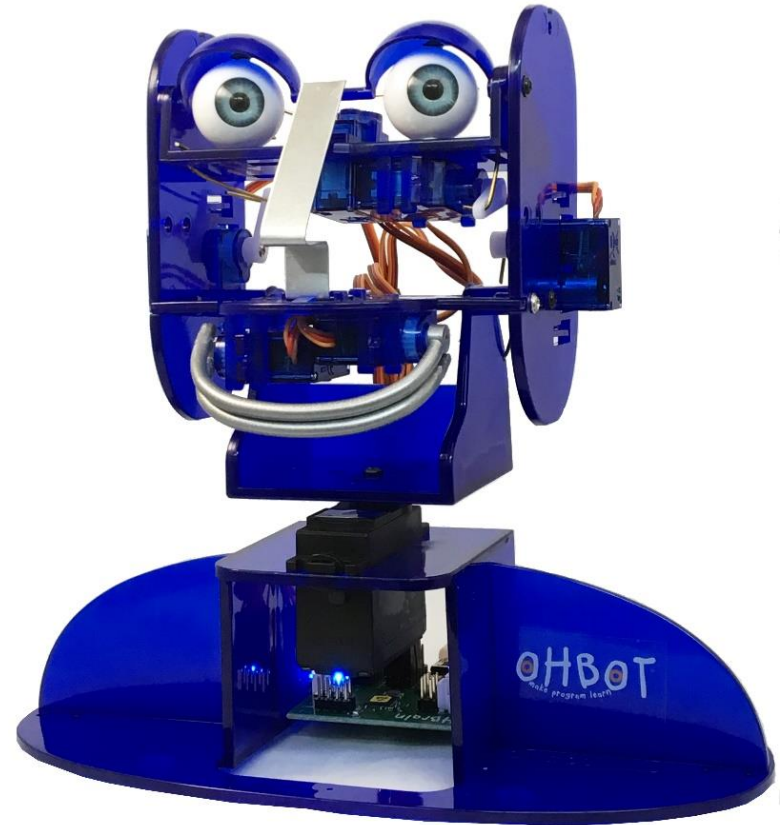
Here's one way
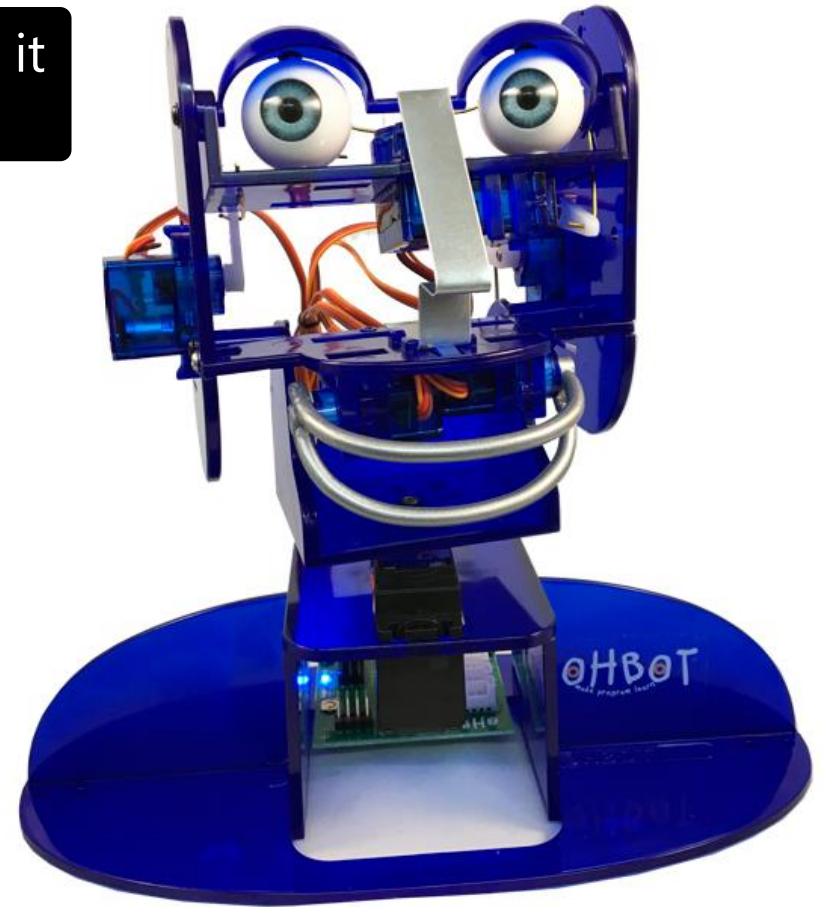
Activity 2

Can you make Ohbot count aloud in tens and stop when it gets to 100?

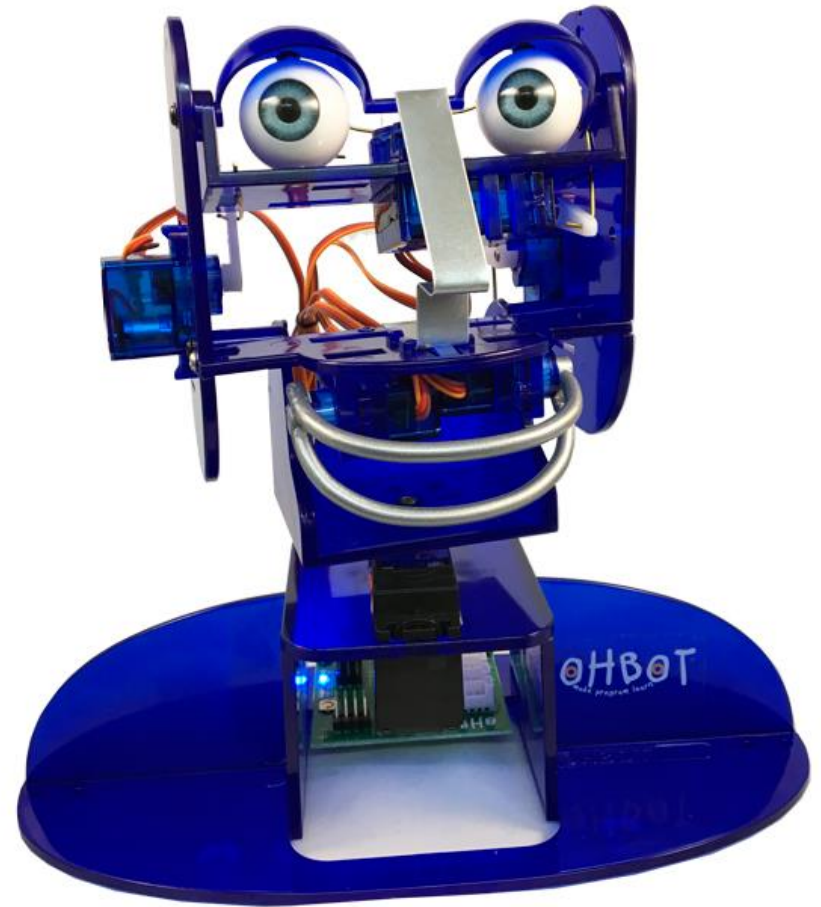Example: Count in tens and stop when it gets to 100

Activity 3

Can you make Ohbot count back in tens from 200. Can you make Ohbot stop when it gets to 100?
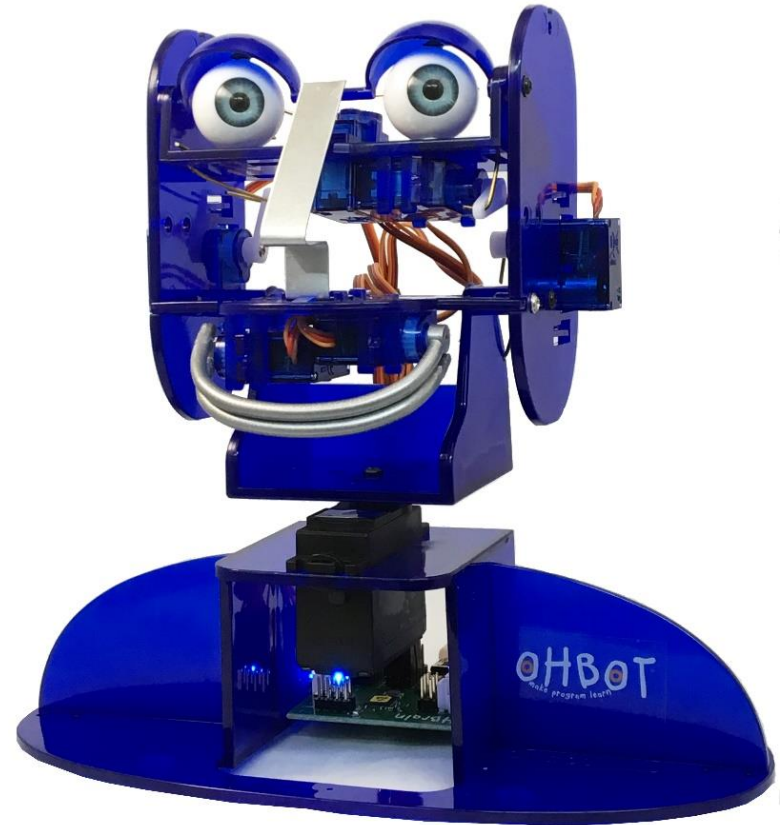
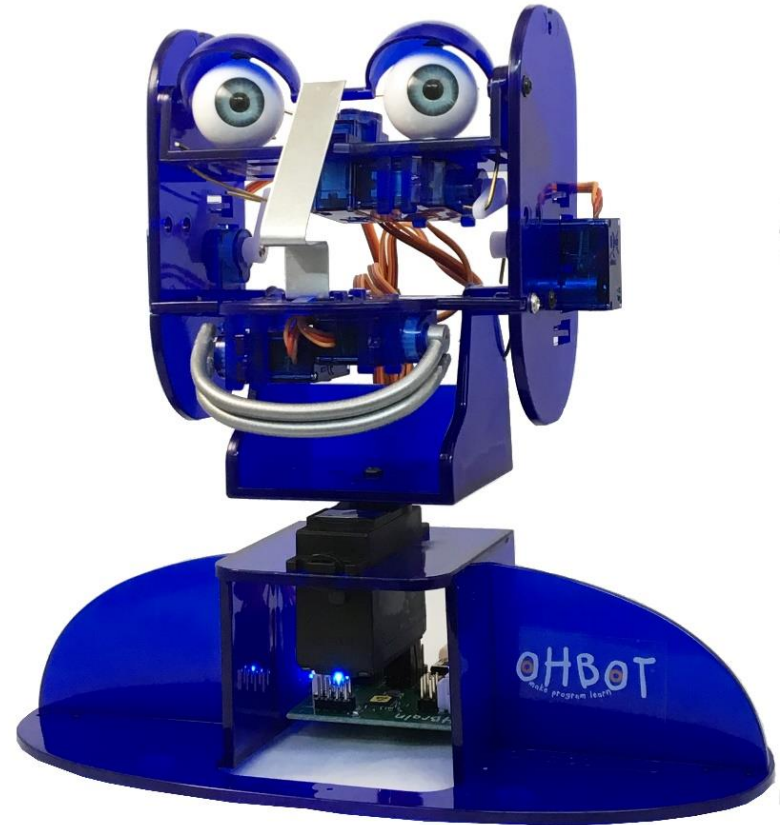Example: Counting back from 200 to 100 in tens

Activity 4

Can you make Ohbot count back in fives, starting at 250 and stopping when it gets to 200?
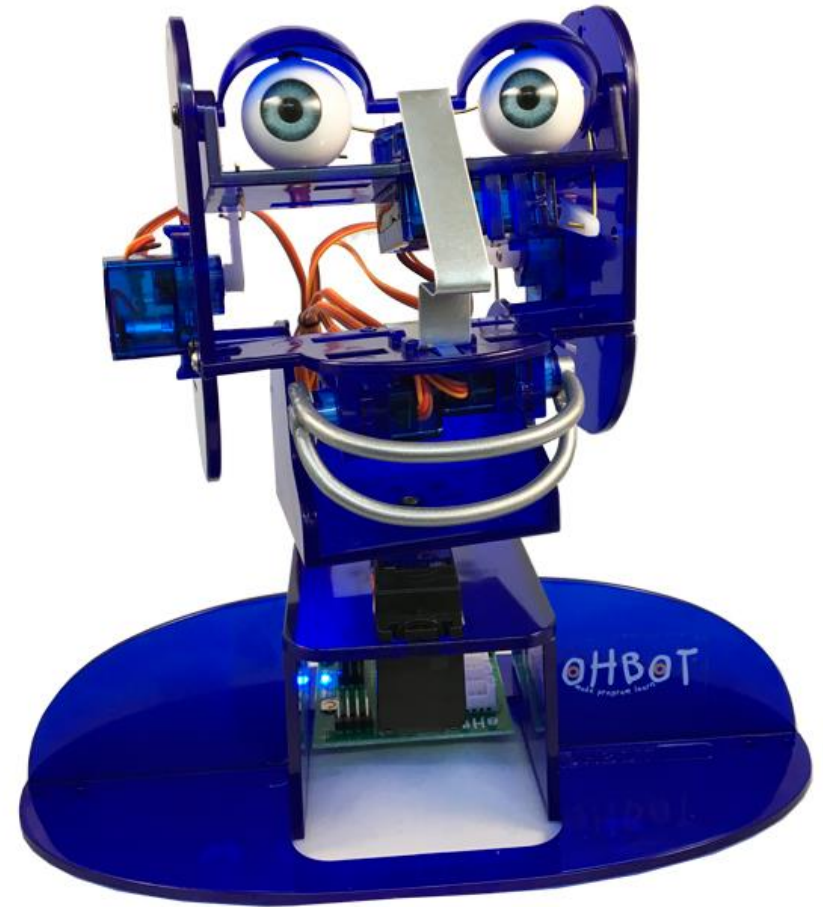
Activity 5

Can you make Ohbot count back in twos, starting at 100 and stopping when it gets to 20?

Extension

Can you make Ohbots lips move as it counts?

Example

```
when ⚑ clicked
set count to 200
repeat until ( count = 100 )
    say count
    set BottomLip to 5
    wait 0.5 secs
    set BottomLip to 10
    wait 0.5 secs
    set BottomLip to 5
    wait 0.5 secs
    change count by -10
```

Did you find another way?