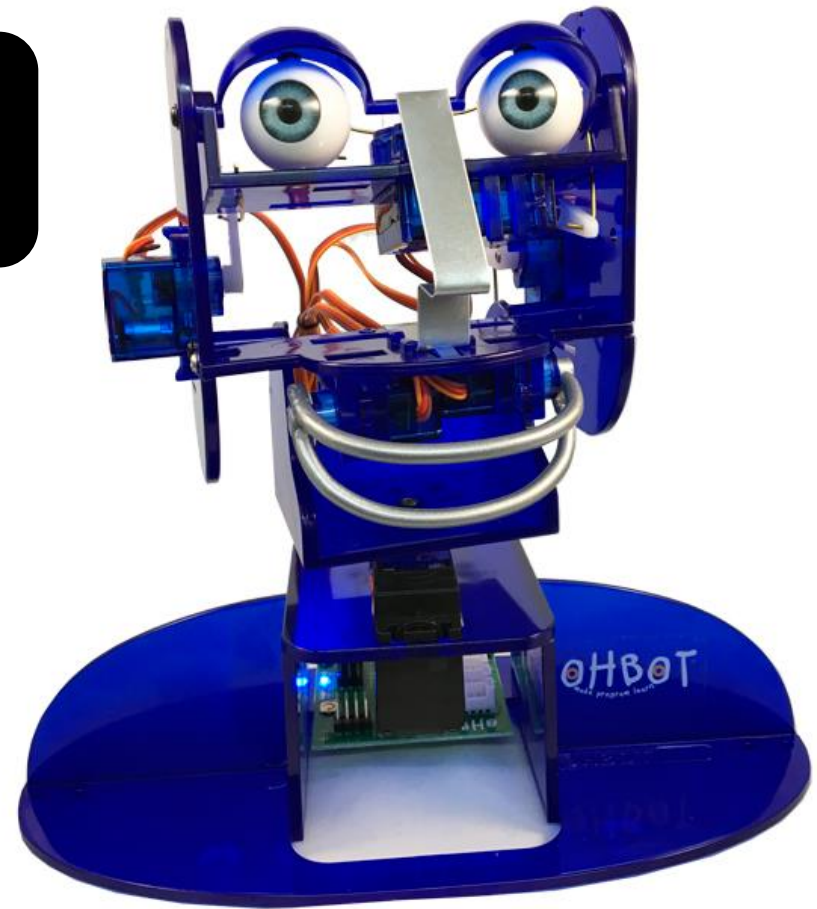


# Lesson 3: Over and over again

I can refine a program by using the repeat instruction

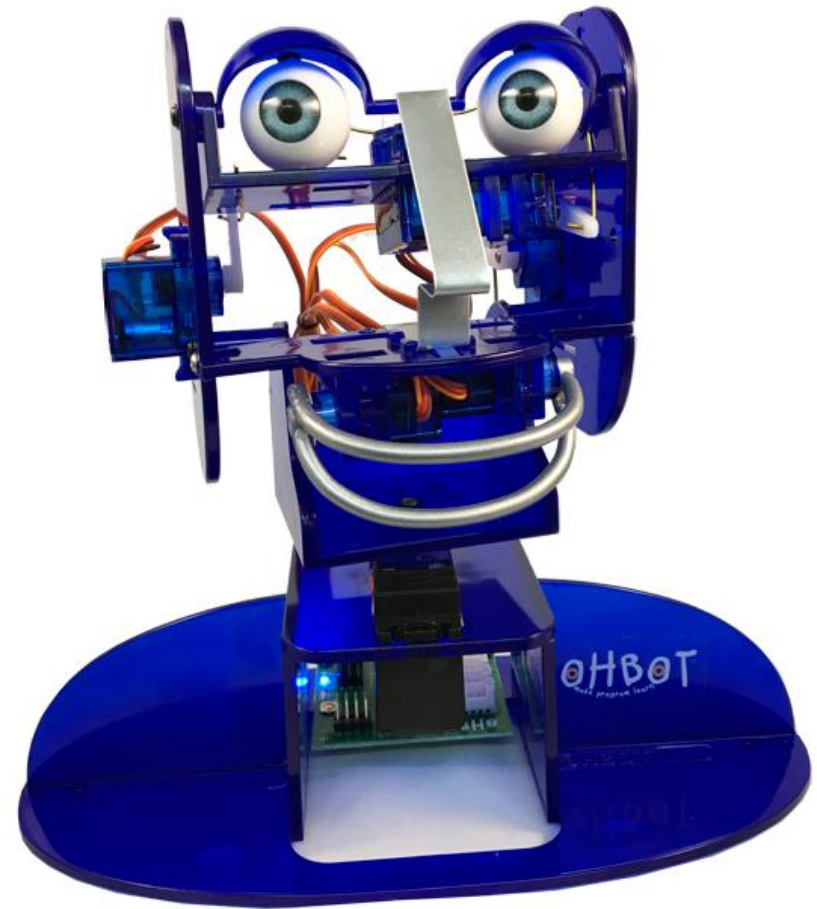
Which command can you use to make Ohbot perform a movement over and over again?



## Activity 1

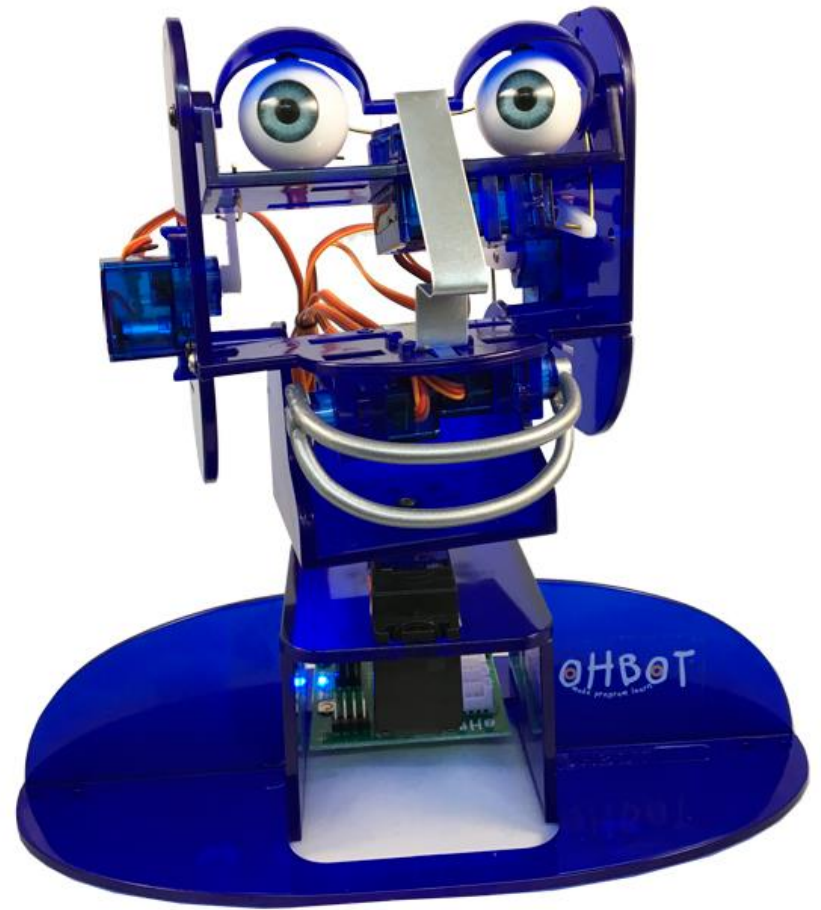
Can you write some code to make my head move up and down 10 times?

*File, Save As* – head nod with repeat



Head nod - using repeat

```
when clicked
repeat 10
  set HeadNod to 0
  wait 1 secs
  set HeadNod to 10
  wait 1 secs
```

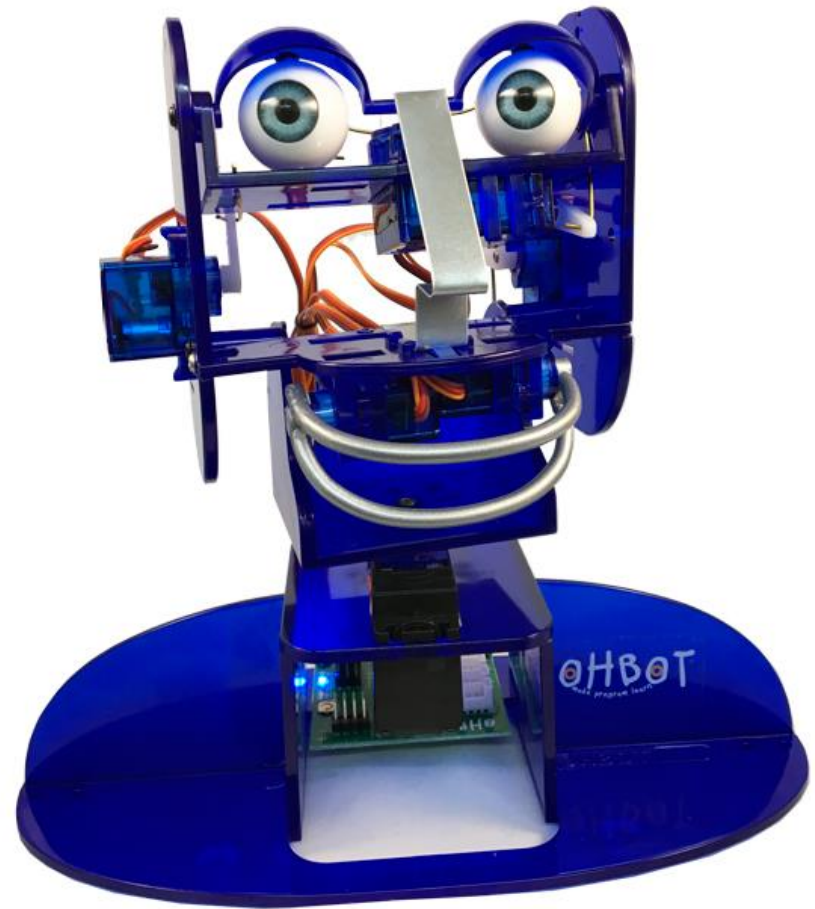


## Activity 2

Can you write a program to help me cross a road?

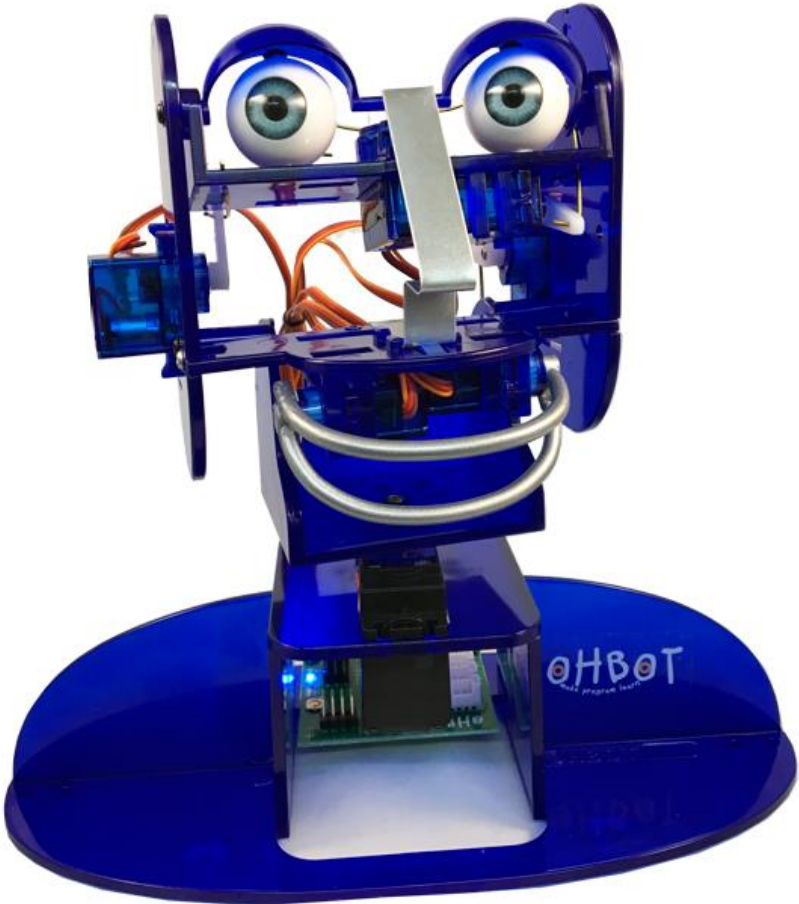
I need to look left and right twice while I am on the kerb and then straight ahead while I cross the road.

*File, Save As* – crossing the road



Crossing the road example

```
when clicked
repeat 2
  set EyeTurn to 0
  wait 1 secs
  set EyeTurn to 10
  wait 1 secs
set EyeTurn to 5
```





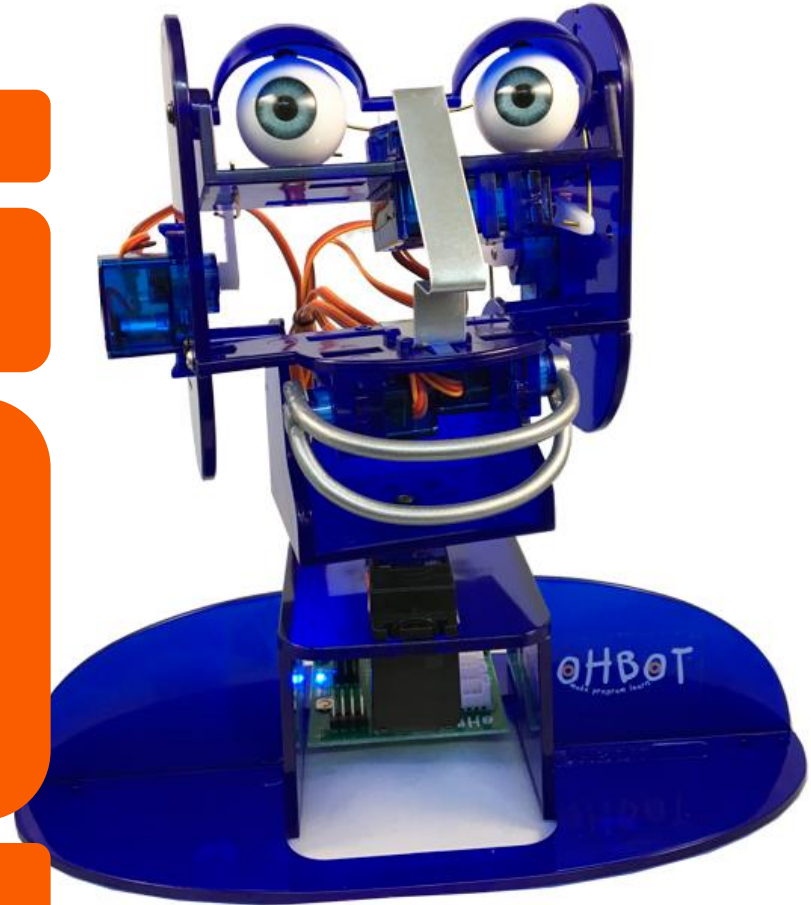
## Activity 3

Today I am going to my keep fit class.

Can you write some code for me to perform a sequence of movements one after the other?

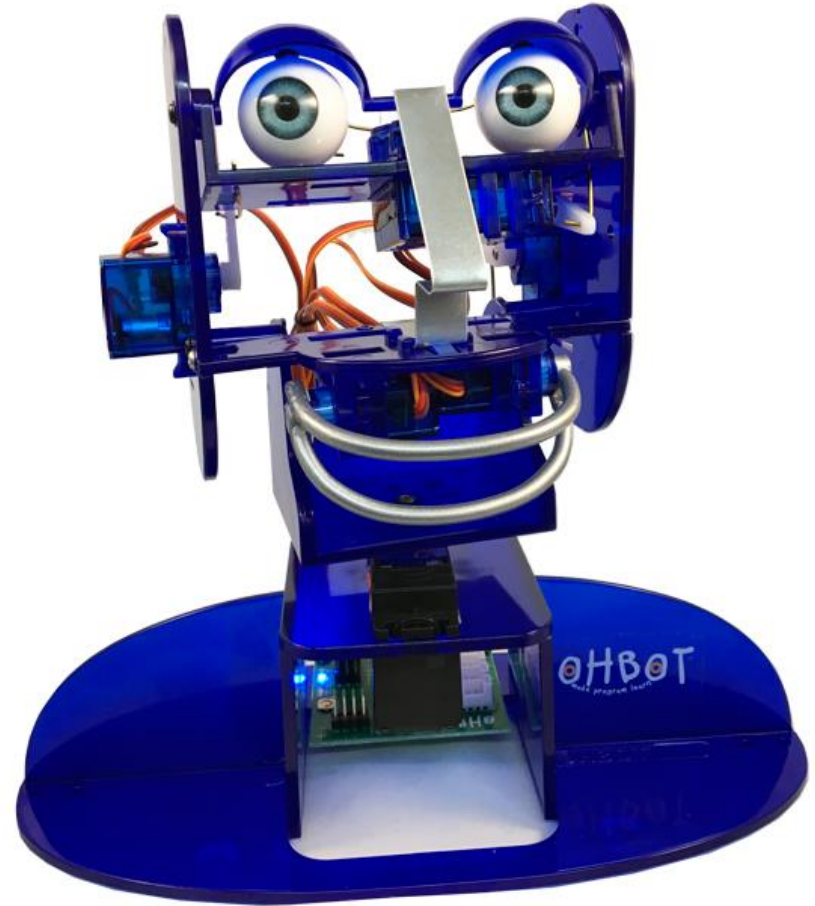
First nod twice, then shake twice finally blink twice.

*File, Save As – Keep fit*



# Activity 3: Example

```
when clicked
repeat 2
  set HeadNod to 0
  wait 1 secs
  set HeadNod to 10
  wait 1 secs
set HeadNod to 5
wait 1 secs
repeat 2
  set HeadTurn to 0
  wait 1 secs
  set HeadTurn to 10
  wait 1 secs
set HeadTurn to 5
wait 1 secs
repeat 2
  set EyeTilt to 0
  wait 1 secs
  set EyeTilt to 10
  wait 1 secs
set EyeTilt to 5
```





Extension

Can you write your own keep fit sequence for OhBot with at least 3 moves and using repeat.

*File, Save As – My keep fit*

