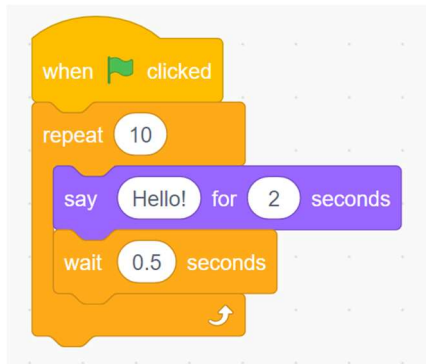
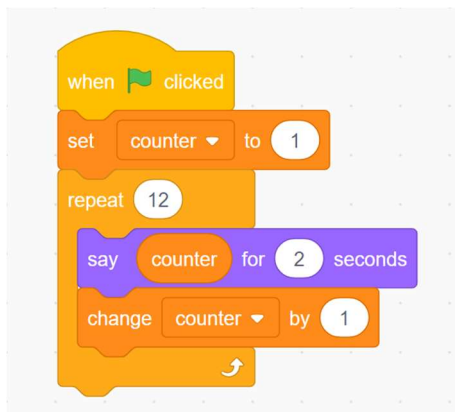


Programming Iteration

In this lesson we have looked at iteration, your challenges for today are to:



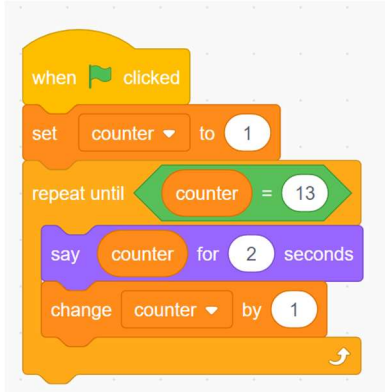
Challenge 1: Copy the program and change it so that the user can choose how many times the message is repeated. Then make it so they can also enter the message that is to be repeated. You will need to make two variables to do this. The variables will need to be set before the loop starts and will be placed in the Repeat and Say blocks.



Challenge 2: Copy and adapt the program so that it counts backwards.

Challenge 3: Copy and adapt the program so the user can choose where the counting starts. Set the value of the counter variable according to what they enter.

Challenge 4: Add another variable to the program so that the user enters 2 numbers before the loop starts. The program should count from the first number to the second number. You will need a third variable to work out how many times to repeat the loop. Subtracting the first number from the second number gives you the value you need.



Challenge 1: Change the example so that the user enters 2 numbers that will be the start and end of the counting. This is like the third challenge from the previous example. Set the counter to the value of the first number entered. Repeat the loop until the counter reaches 1 more than the second number entered. Compare the program with the one you wrote for the previous challenge.