

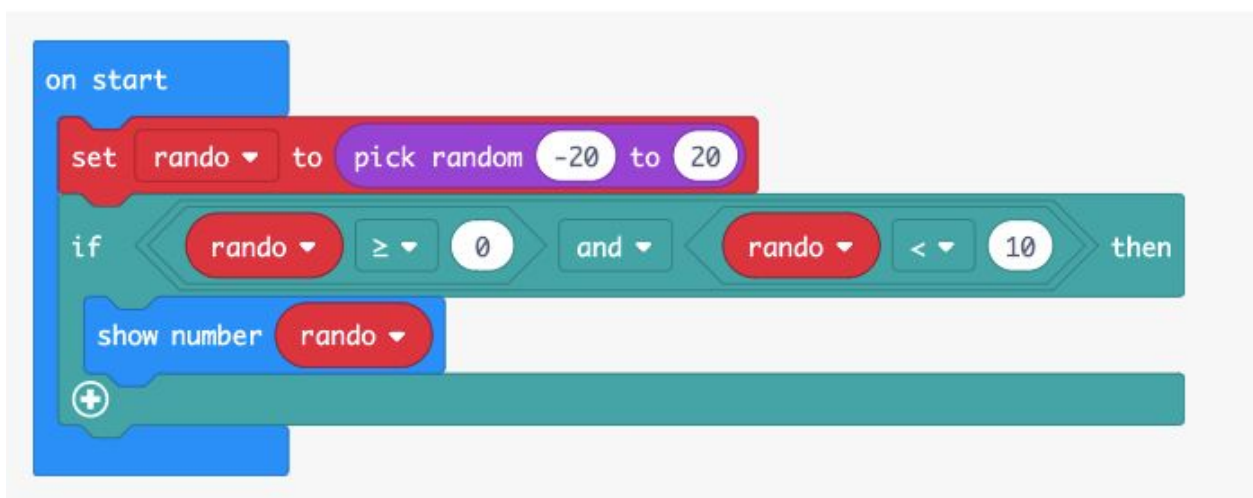
Code on Microbit.

Complex conditionals

Multiple conditions

Sometimes there is code you want to run if two or more conditions are true. The `if then` block lets you combine conditions with the `and` the `or` blocks. For example, if we want to see if a random number is between 0 and 9, we can put two conditions in an if then and connect them with an `and`.

A



This is how to check if a result is within a range of values, in this case it's from 0 to 9.

What if we want to include the values between 15 and 18 too? We just add another range check and connect them with `and`.

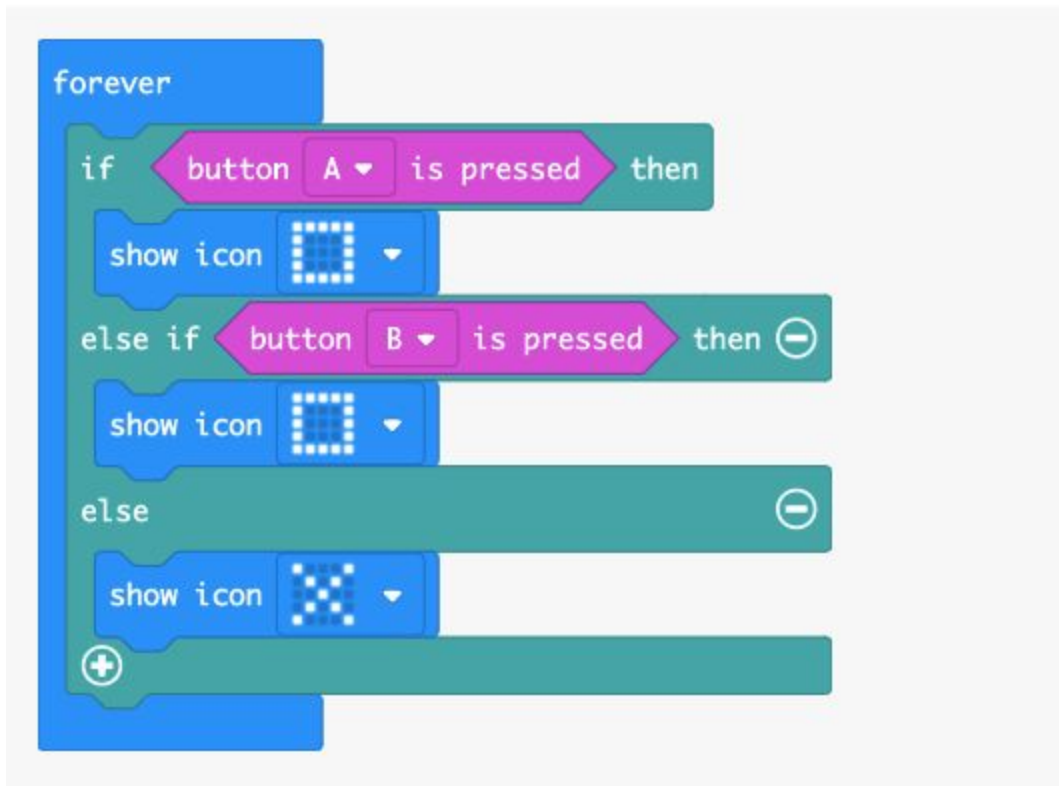
B.

Use Complex coding commands such as IF then Else

Code a program so that it performs the following on the display screen:

1. If Button A is pressed then displays a Smiley face
2. If Button B is pressed Displays a Full light up screen
3. And if A and B pressed then a Cross.
4. For ever.

Example:



Now change the code to perform a times table for any number between 1 to 12.

If Button A is pressed to show any random number between 1 to 12 and

Button B is pressed any random number between 1-12.

Display Product = $A \times B$