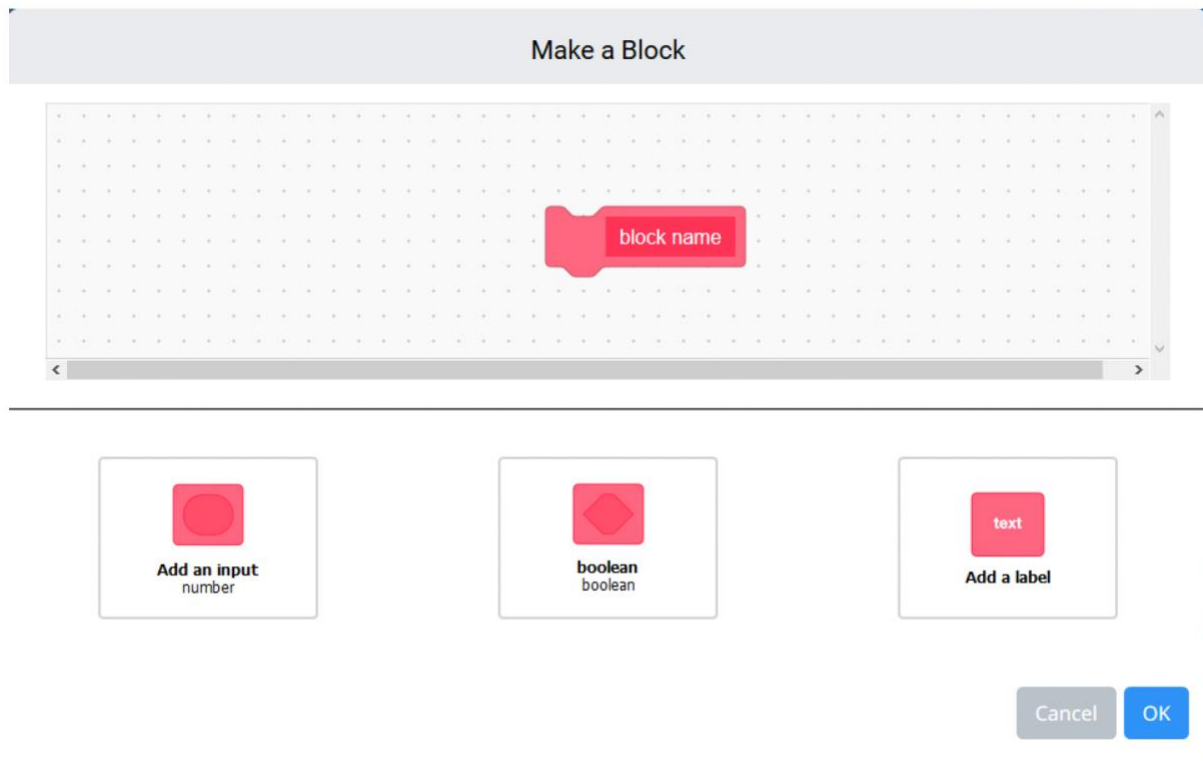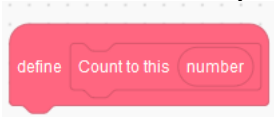# CISC 1003 – Functions

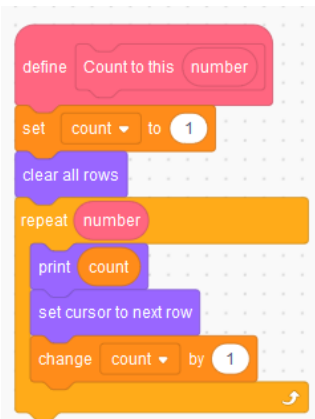We will be using the VR.VEX environment for our class: https://vr.vex.com/

Make a My Block

With a My Block, you can have a series of blocks to a set of instructions. And allow inputs to these instructions. Most other programming languages would call this a function or method. You can add various inputs, and Booleans to your block. The order you enter them in, is the order thatthe program will expect the inputs (arguments) passed to it in.
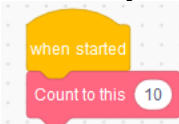In the above example, you will get the following:

The block name is called "Count to this" and it gets as a parameter a number called "number".
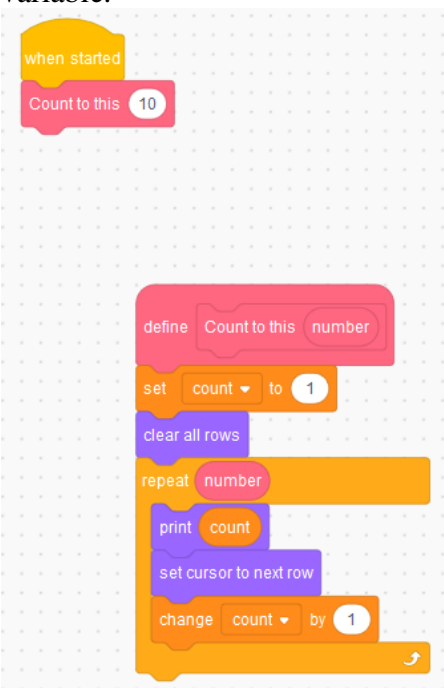
You can then add the blocks of code to this custom block sequence.

Such as to print the numbers 1 to 10 using My Blocks, you add in from the My Blocks screen the custom my block that you created:

So that when the program starts it calls the "Count to this" block and passes the value 10 to the number
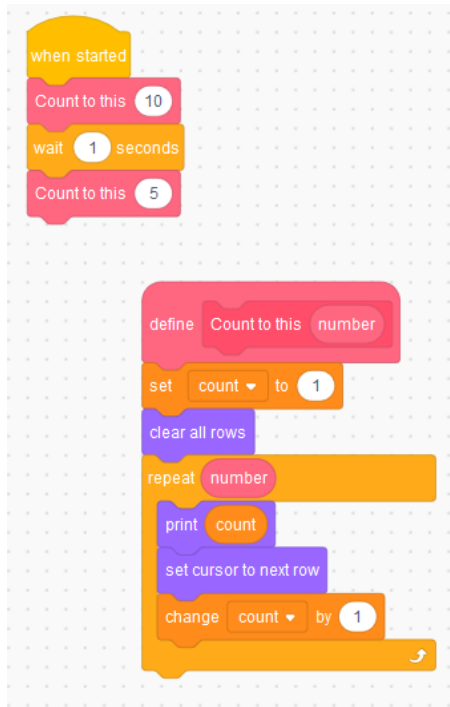variable.

When the my block sequence is running, it will go through the set of instructions and then when done, go back to the block that called it and continue the rest of the program. In this example, the program is complete. But you can call the my block multiple times.

```
when started
Count to this  10
wait  1  seconds
Count to this  5


define  Count to this  number
set  count ▾  to  1
clear all rows
repeat  number
  print  count
  set cursor to next row
  change  count ▾  by  1
```

This will display 1 to 10 and then after 1 second display 1 to 5.