Multiplication Table
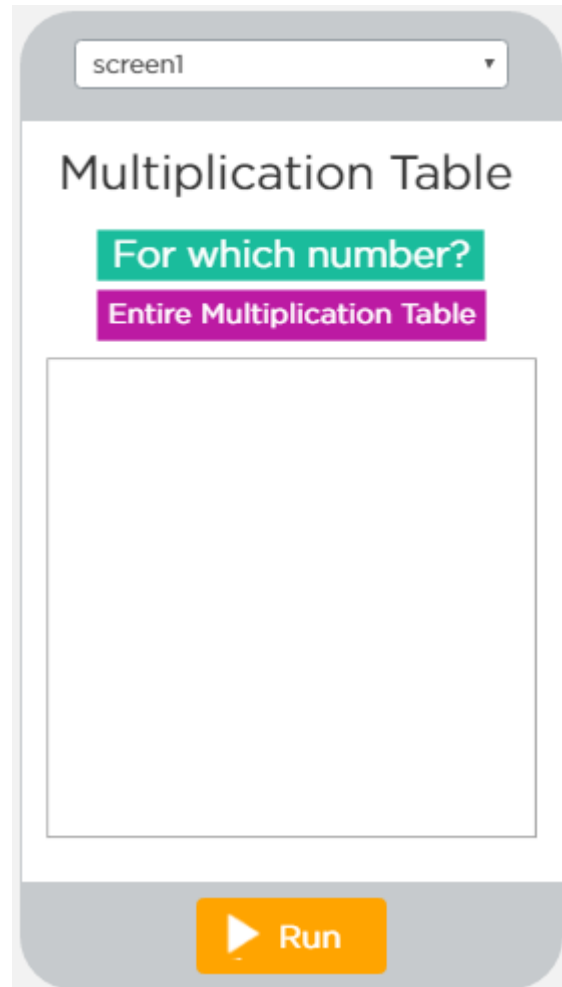
This app will print a (slightly skewed) multiplication table.

It will also print a table for each number. For example:

1 x 1 = 1
2 x 1 = 2
3 x 1 = 3
4 x 1 = 4
5 x 1 = 5
6 x 1 = 6
7 x 1 = 7
8 x 1 = 8
9 x 1 = 9
10 x 1 = 10
11 x 1 = 11
12 x 1 = 12

The first button has the id 'which'.
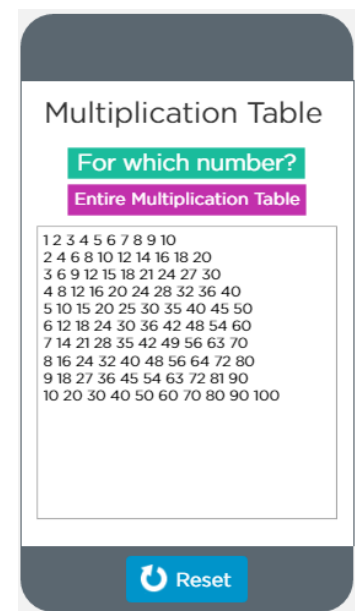The second button has the id 'all'.
The textArea has the id 'ans'.

Coding Entire Multiplication Table

Make an onEvent for the button.
Make a variable to hold the output.

```
var output = "";
```

Make two for loops that are nested:

```
for ( var i = 1; i < 11; i++) {
    for ( var j = 1; j < 11; j++) {


    }
}
```

Add the code to multiply the numbers and print them out.

```
for ( var i = 1 ; i < 11 ; i++ ) {
    for ( var j = 1 ; j < 11 ; j++ ) {
        var ans = i*j ;
        output += "   "+ans ;
    }
    output += "\n";
}
```
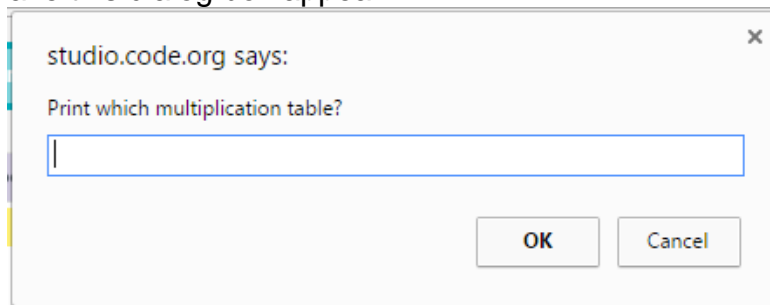
Multiply the numbers
Add them to the output

Move to a new line when one is done

Outside both loops, add the code to print it out to the screen.

```
setText(▼ "ans", output);
```

Coding For which number?

First make this dialog box appear.

studio.code.org says:

Print which multiplication table?

| |

OK   Cancel

×

Multiplication Table

For which number?
Entire Multiplication Table

```
1 x 3 = 3
2 x 3 = 6
3 x 3 = 9
4 x 3 = 12
5 x 3 = 15
6 x 3 = 18
7 x 3 = 21
8 x 3 = 24
9 x 3 = 27
10 x 3 = 30
```

↻ Reset

Then, make a for loop that runs that many times.
Then, in the for loop, print out one line of the multiplication table.

```
var ans = num*i ;

output += i+" x "+num+" = "+ans+"\n" ;
```