Music and Lights

Log into MakeCode and let's get coding!

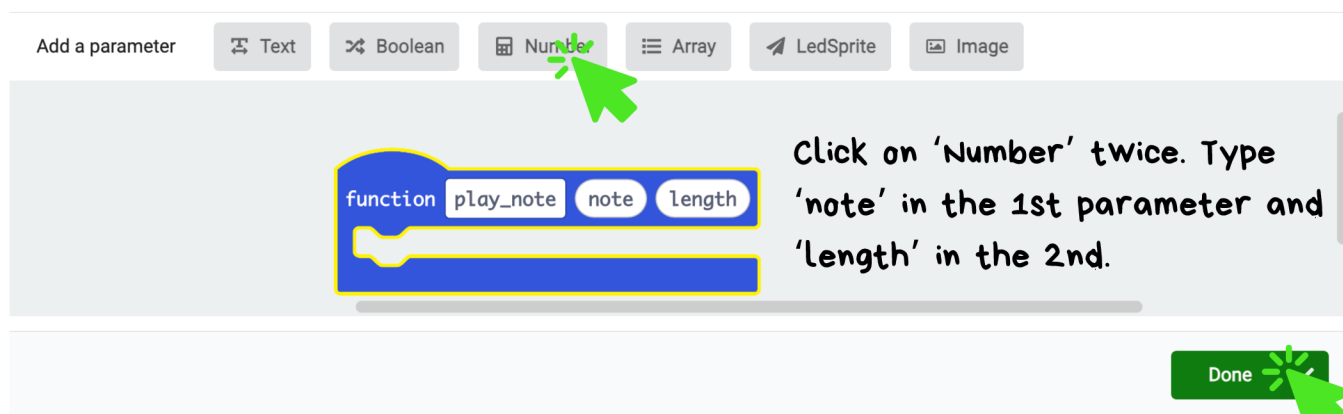https://makecode.microbit.org/
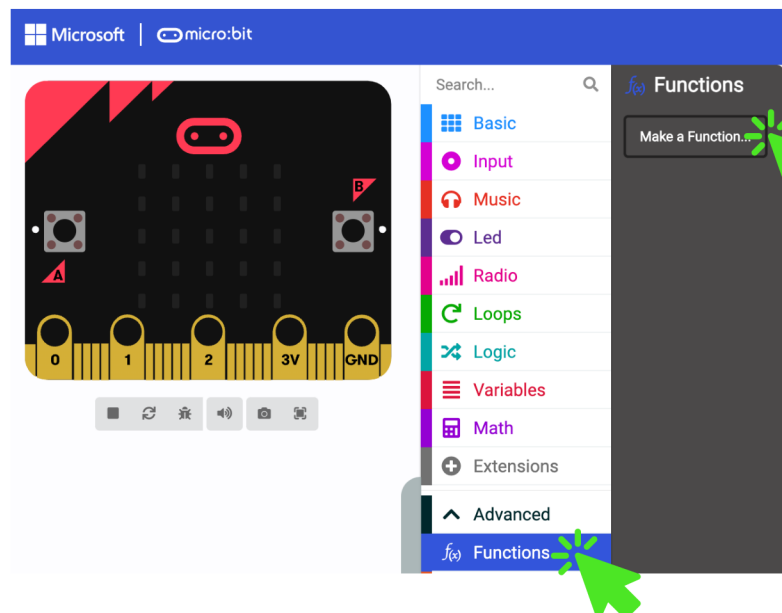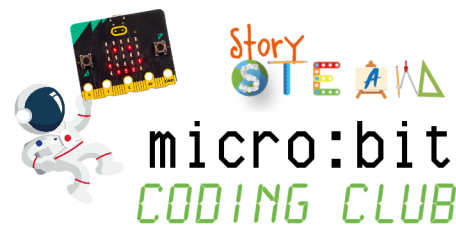
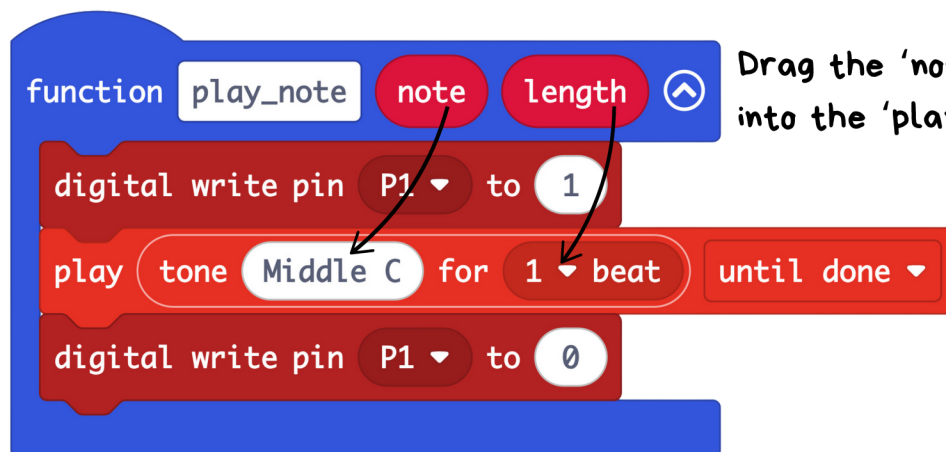Open the function drawer and click on 'Make a Function'.

Click in the box where it says 'doSomething' and type 'play_note'

Click on 'Number' twice. Type 'note' in the 1st parameter and 'length' in the 2nd.

Add the following code.

Drag the 'note' and 'length' variables into the 'play tone' music block.

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Here is the code for 'Jingle Bells'

```
on button A ▼ pressed
  set volume 255
  digital write pin P1 ▼ to 0
  call play note 494 200
  call play note 494 200
  call play note 494 400
  pause (ms) 75 ▼
  call play note 494 200
  call play note 494 200
  call play note 494 400
  pause (ms) 150 ▼
  call play note 494 200
  call play note 587 200
  call play note 392 400
  call play note 440 100
  call play note 494 400
  pause (ms) 100 ▼
  call play note 523 200
  call play note 523 200
  call play note 523 200
  call play note 523 200
  call play note 523 200
  call play note 494 200
  call play note 494 200
```

```
  call play note 494 200
  call play note 440 200
  call play note 440 200
  call play note 494 200
  call play note 440 400
  pause (ms) 50 ▼
  call play note 587 400
  pause (ms) 200 ▼
  call play note 494 200
  call play note 494 200
  call play note 494 400
  pause (ms) 75 ▼
  call play note 494 200
  call play note 494 200
  call play note 494 400
  pause (ms) 150 ▼
  call play note 494 200
  call play note 587 200
  call play note 392 400
  call play note 440 100
  call play note 494 400
  pause (ms) 100 ▼
  call play note 523 200
  call play note 523 200
```

```
  call play note 523 200
  call play note 523 200
  call play note 523 200
  call play note 494 200
  call play note 494 200
  call play note 494 200
  call play note 587 200
  call play note 587 200
  call play note 523 200
  call play note 440 300
  call play note 392 400
  pause (ms) 1000 ▼
  digital write pin P1 ▼ to 1
```

Can you code a different festive melody for your micro:bit?

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