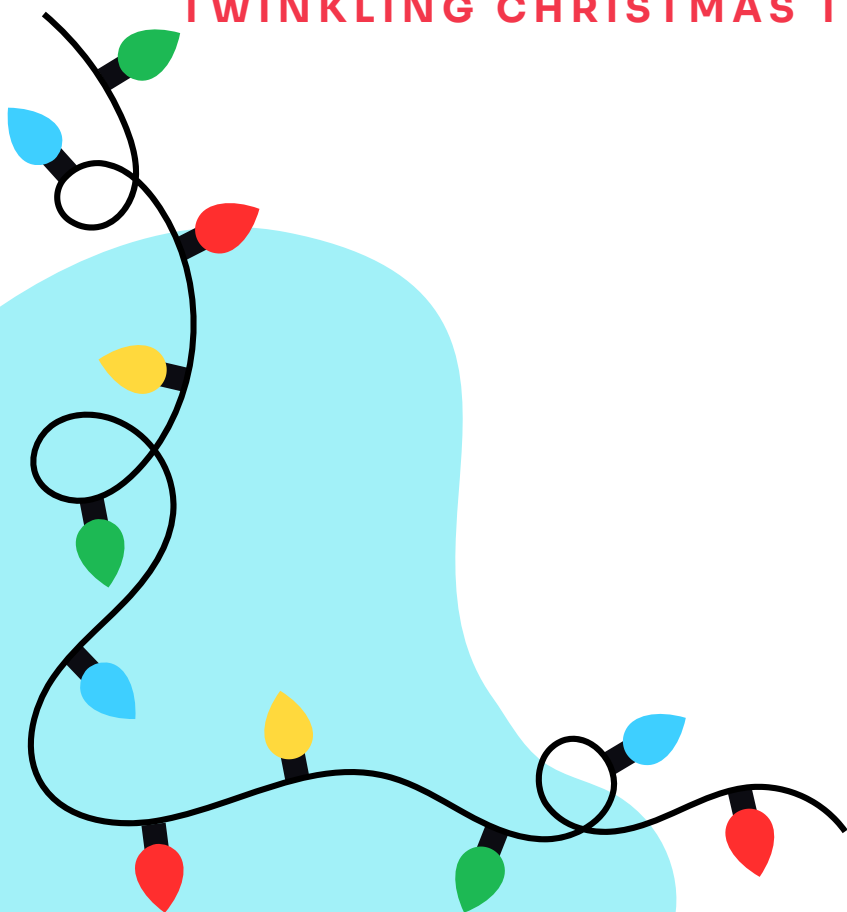




KS1 MAKECODE MICRO:BIT TWINKLE TREE

YOUR STEP-BY-STEP GUIDE TO CODING A
TWINKLING CHRISTMAS TREE WITH MUSIC



KS1 MAKECODE MICRO:BIT

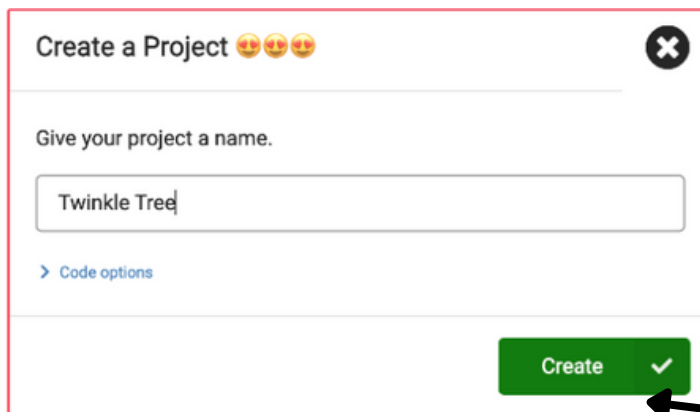
TWINKLE TREE | STEP-BY-STEP

STEP 1

Go to <https://makecode.microbit.org/>

STEP 2

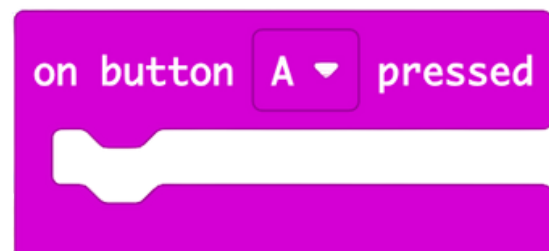
Click 'New Project'. Name it Twinkle Tree.



Then press "Create"

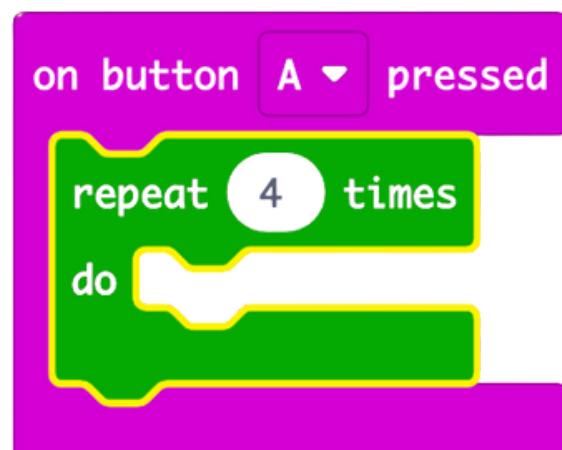
STEP 3

From "Input", drag 'on button A pressed' and drop it into your coding screen like this:



STEP 4

Now click onto "Loops", add find a 'repeat 4 times' block to drop into your input like this:

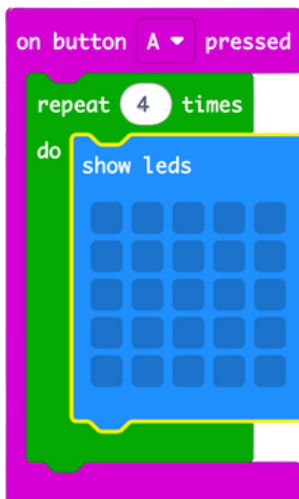


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TWINKLE TREE | STEP-BY-STEP

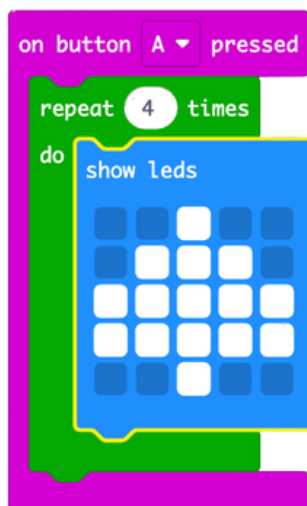
STEP 5

Now click onto “Basic” and find “show leds” – drop this into your green repeat, like this:



STEP 6

Now click on each square to draw a Christmas tree shape like this:

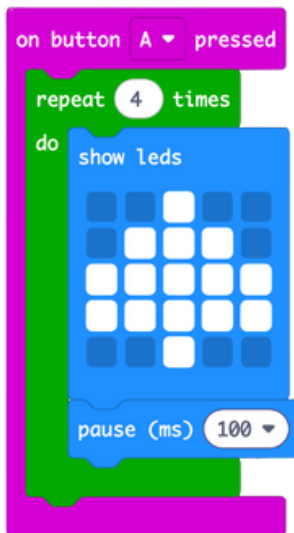


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TWINKLE TREE | STEP-BY-STEP

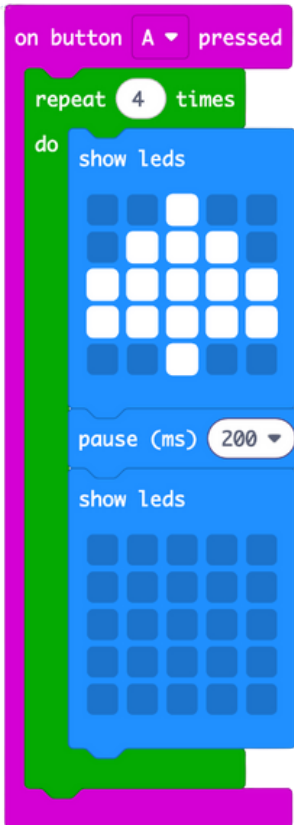
STEP 7

Next, click onto “Basic” and find the pause code. Drop it under your Christmas tree like this:



STEP 8

Change the pause to 200ms.



STEP 9

Now click onto “Basic” again and drag another “show leds” under the pause, like this:

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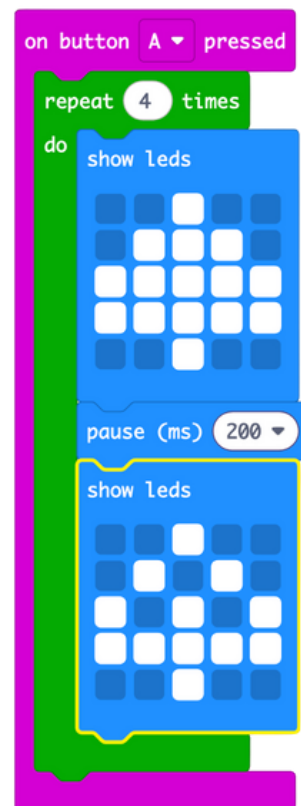
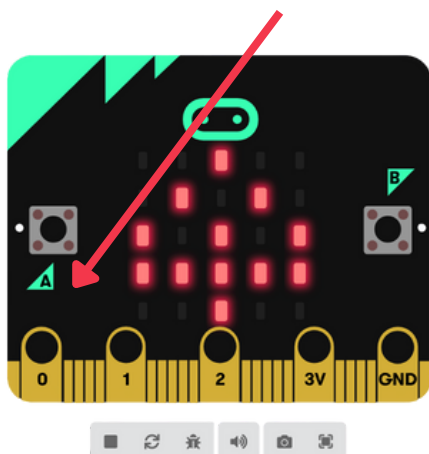
TWINKLE TREE | STEP-BY-STEP

STEP 10

Now draw the Christmas tree again, but this time, leave some empty squares. This is where lights will twinkle.

STEP 11

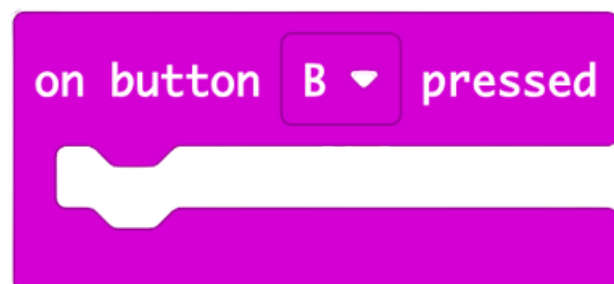
Test your code by pressing button A on the micro:bit.



STEP 12

Now let's add music!

Click onto "input" and find "on button A pressed", drag it into your coding screen but change the A to a B like this:



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TWINKLE TREE | STEP-BY-STEP

STEP 13

From Music, find this code and drop it into your B button like this:



If you click on the note, you can change it. Here are all of the notes for Twinkle Twinkle Little Star:



STEP 14

Test our your code by pressing button A on the micro:bit, then button B!