

# Project 124

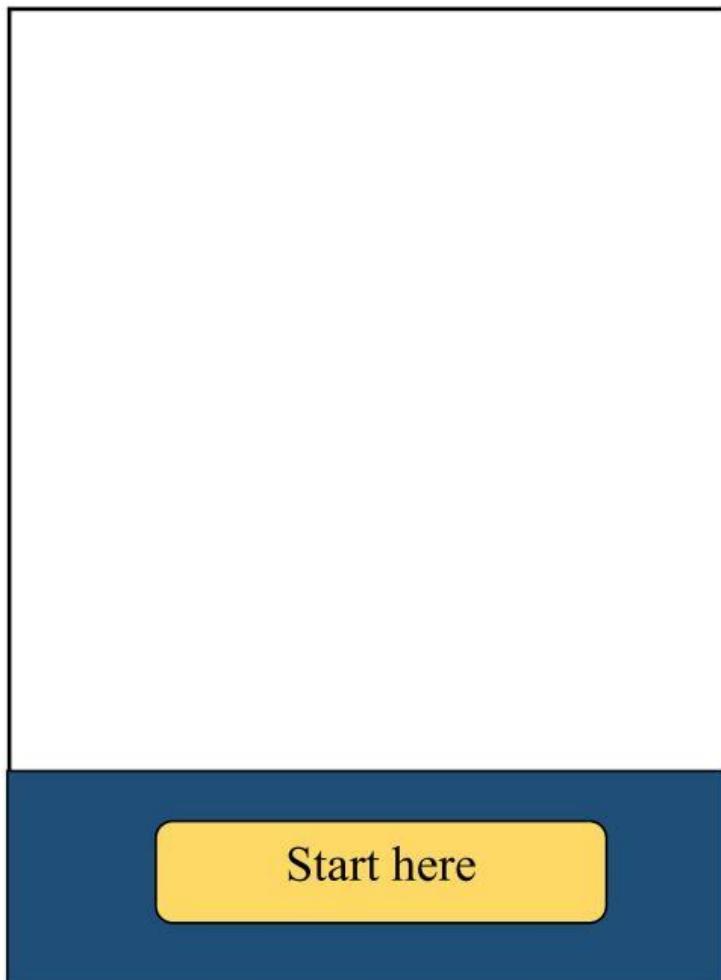


**DP**  
EDUCATION

**Coding  
School**



**micro:bit**



- ❖ First drag an on start block.
- ❖ Let's prepare a variable in that block.
- ❖ Let's prepare a variable as temperatureThreshold and give its initial value as 20.



- ❖ Let's create a function as follows.

- First click on make function under function tab.
- Then let's create a function as checkTemperature in that function.
- Then click on Done.

#### Edit Function



Add a parameter

Text   Boolean   Number   Array   LedSprite   Image

function **checkTemperature**

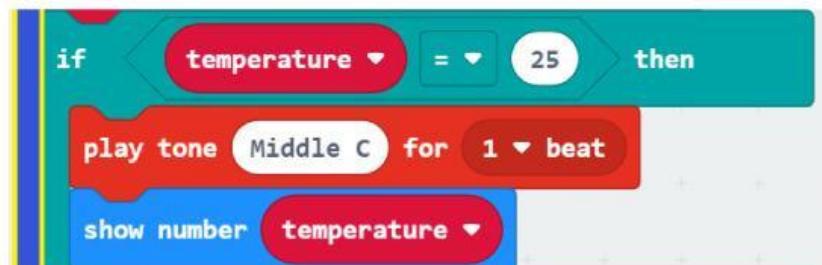
Done ✓

A screenshot of the Scratch function editor. It shows a single blue function block named 'checkTemperature'. The editor has tabs for Text, Boolean, Number, Array, LedSprite, and Image. A 'Done' button with a checkmark is at the bottom right.

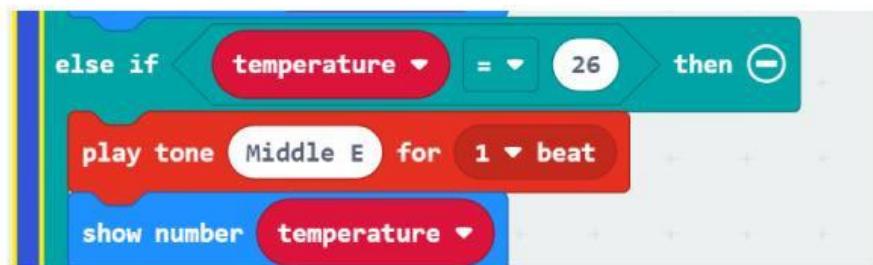
- Set a variable as temperature in the checkTemperature function. Set the temperature in that variable.



- If the value of the temperature is equal to 25, the middle C tone should be play and the value of the temperature should be show in the micro bit board. For that, prepare the code as below.



- If the value of the temperature is equal to 26, the middle E tone should be play and the value of the temperature should be show in the micro bit board. For that, prepare the code as follows.



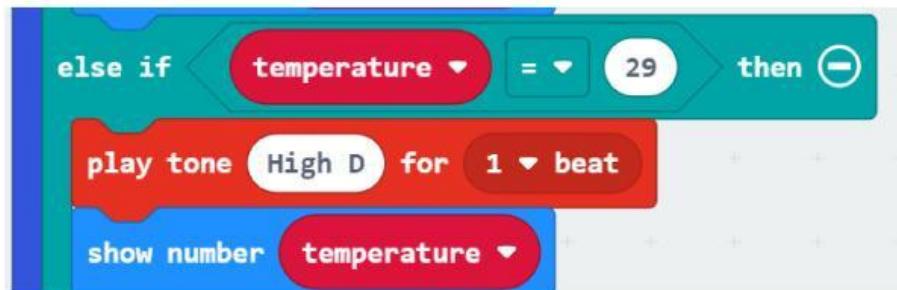
- If the value of the temperature is equal to 27, the middle G tone should be play and the value of the temperature should be ahow in the micro bit borad. For that, prepare the code as follows.



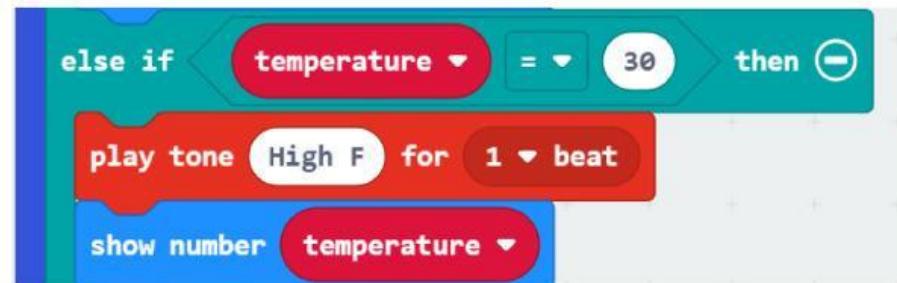
- If the value of the temperature is equal to 28, the middle B tone should be play and the value of the temperature should be ahow in the micro bit borad. For that, prepare the code as follows.



- If the value of the temperature is equal to 29, the High D tone should be played and the value of the temperature should be ahow in the micro bit borad. For that, prepare the code as below.



- If the value of the temperature is equal to 30, the High F tone should be played and the value of the temperature should be shown in the micro bit board. For that, prepare the code as follows.



- If the value of the temperature is more than 30, the High F tone should be played and the value of the temperature should be shown in the micro bit board. For that, prepare the code as below.



- ❖ Let's prepare the code to call the checkTemperature function for two seconds.

