Keyestudio

Project 9: Speaker

1. Description

The micro:bit motherboard has a built-in speaker, which makes it very easy to add a sound to your project. The speaker can be programmed to emit a variety of tones, such as writing a song: Ode to Joy, and play it.

(Speaker)

2. Components Needed

		
Micro:bit * 1	USB Cable * 1	

3. Test Code

You can upload the code directly from the tutorial (read the "Development Environment Configuration" file if in doubt).

Code:

```
from microbit import *

import audio

display.show(Image.MUSIC_QUAVER)

while True:
    audio.play(Sound.GIGGLE)
    sleep(1000)
    audio.play(Sound.HAPPY)
    sleep(1000)
    audio.play(Sound.HELLO)
    sleep(1000)
    audio.play(Sound.YAWN)
    sleep(1000)
```

4. Code Explanation

from microbit **import** *	Import the library file of micro:bit
import audio	audio library file
while True:	This is permanent loop, and micro bit executes the code
audio.play(Sound.GIGGLE)	Make a giggle sound
sleep(1000)	Delay in 1000ms

5. Test Result

Download code onto micro:bit board, don’ t plug off USB cable, then the speaker will emit a sound and the LED dot matrix will display a music logo pattern.