



When the button is pressed the tone sweeps up and down four times.  
 The lowest frequency is 50hz and the highest frequency is 1500hz.  
 The "while" loops change the frequency each time through.

```

    setup
    int = variable button
        value 3
    int = variable speaker
        value 2
    int = variable frequ
        value 500

    loop
    while (digitalRead() # button = LOW)
    delay ms milliseconds 10
    repeat 4
    while (frequ < 1500)
    tone pin# speaker
        frequency frequ
    delay ms milliseconds 10
    int = variable frequ
        value frequ + 5
    while (frequ > 500)
    tone pin# speaker
        frequency frequ
    delay ms milliseconds 10
    int = variable frequ
        value frequ - 5
    noTone pin# speaker
    
```