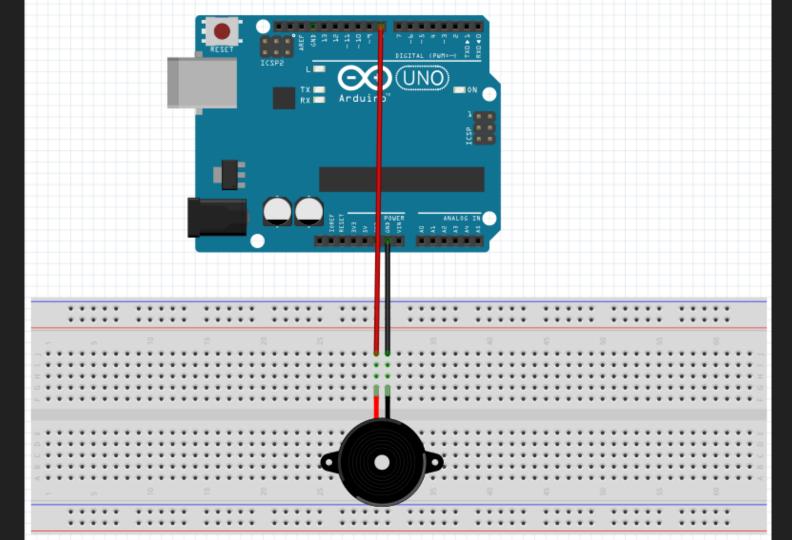
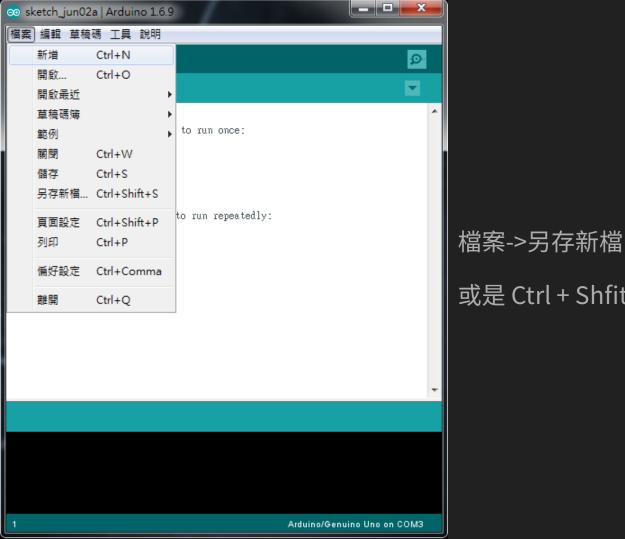
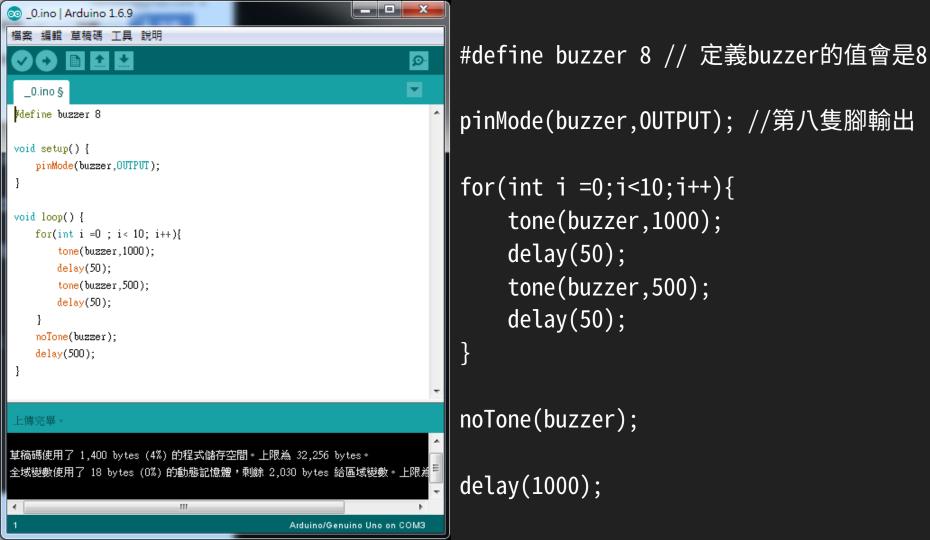
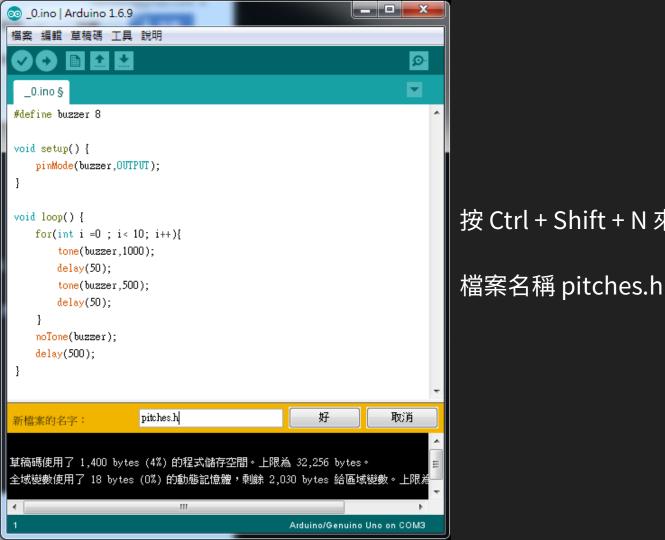
蜂鳴器簡易應用





或是 Ctrl + Shfit + S





按 Ctrl + Shift + N 來新增頁面



把pitches.txt檔案內容複製進來



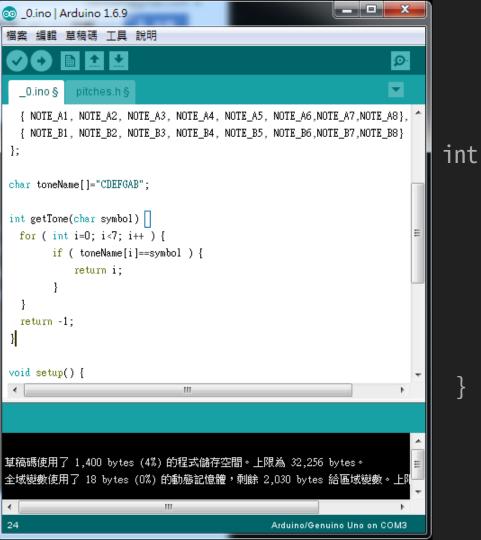
#include "pitches.h"



在最外圍加入

const int toneTable[7][6]音階表

char toneName[]="CDEFGAB";



int getTone(char symbol) {
 for (int i=0; i<7; i++) {
 if (toneName[i]==symbol) {
 return i;
 }
}</pre>

return -1;

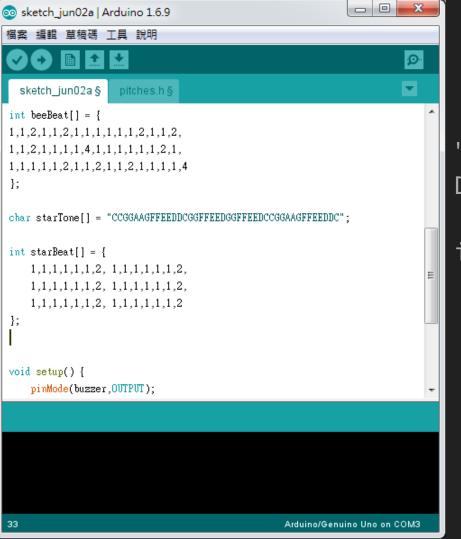


char beeTone[] =
"GEEFDDCDEFGGGGEEFDDCEGGEDDDDDEFEEEEEFGG
EEFDDCEGGC";

```
_0.ino | Arduino 1.6.9
檔案 編輯 草稿碼 工具 說明
                                                                      將loop改成
                                                              Ø
  0.ino §
void setup() {
    pinMode(buzzer,OUTPUT);
void loop() {
    int length, toneNo , duration;
    length = sizeof(beeTone) - 1;
    for (int i=0; i<length; i++ ) {
       toneNo = getTone(beeTone[i]);
       duration = beeBeat[i]*333;
       tone(buzzer.toneTable[toneNo][3]);
       delay(duration);
       noTone(buzzer);
    delay(500);
 上傳完畢
                                                                        delay(500);
草稿碼使用了 1,520 bytes (4%) 的程式儲存空間。上限為 32,256 bytes。
全域變數使用了 116 bytes (5%) 的動態記憶體,剩餘 1,932 bytes 給區域變數。上限
                                            Arduino/Genuino Uno on COM3
```

```
int length, toneNo , duration;
length = sizeof(beeTone) - 1;
for (int i=0; i<length; i++ ) {
    toneNo = getTone(beeTone[i]);
    duration = beeBeat[i]*333;
    tone(buzzer,toneTable[toneNo][3]);
   delay(duration);
   noTone(buzzer);
```

//小蜜蜂版本



```
char starTone[] =
"CCGGAAGFFEEDDCGGFFEEDGGFFEEDCCGGAAGFFEE
DDC":
```

```
int starBeat[] = {
     1,1,1,1,1,1,1,2, 1,1,1,1,1,1,2,
     1,1,1,1,1,1,2, 1,1,1,1,1,1,2,
     1,1,1,1,1,1,2, 1,1,1,1,1,1,2
 };
```

```
0.ino | Arduino 1.6.9
檔案 編輯 草稿碼 工具 說明
                                                                  Ø
void loop() {
    int length, toneNo , duration;
    length = sizeof(beeTone) - 1:
    for (int i=0; i < length; i++ ) {
        toneNo = getTone(starTone[i]);
        duration = starBeat[i]*333;
        tone(buzzer.toneTable[toneNo][3]);
        delay(duration);
        noTone(buzzer);
    delay(500):
 上傳完畢
草稿碼使用了 1,506 bytes (4%) 的程式儲存空間。上限為 32,256 bytes。
全域變數使用了 102 bytes (4%) 的動態記憶體,剩餘 1,946 bytes 給區域變數。上限
                                              Arduino/Genuino Uno on COM3
```

```
int length, toneNo,duration;
length = sizeof(starTone)-1;
for (int i=0; i<length; i++ ) {
   toneNo = getTone(starTone[i]);
   duration = starBeat[i]*333;
    tone(buzzer,toneTable[toneNo][3]);
      delay(duration);
   noTone(buzzer);
```

//star

或是

delay(500);

鍵盤輸入部分

儲存(Ctrl + S)後關閉專案

到 文件/arduino/NCC/ 可以找到剛剛做的

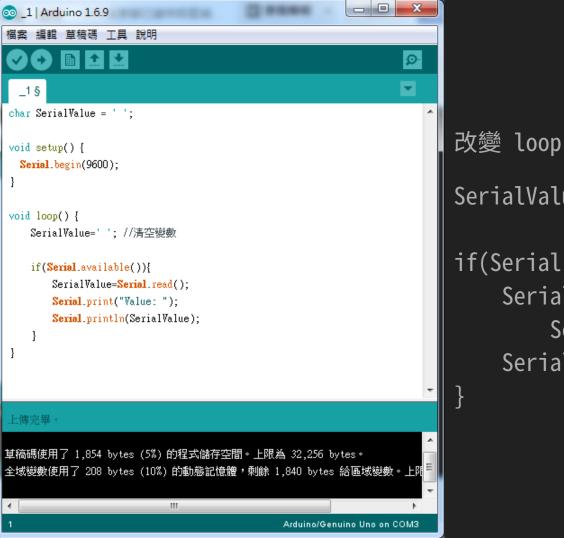
再開一份新的專案



在外圍加入一個 char 型別的變數

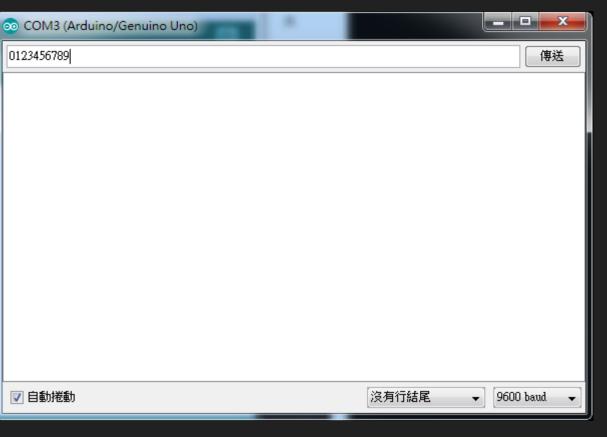
SerialValue = ' ';

在setup 中加入 Serial.begin(9600);



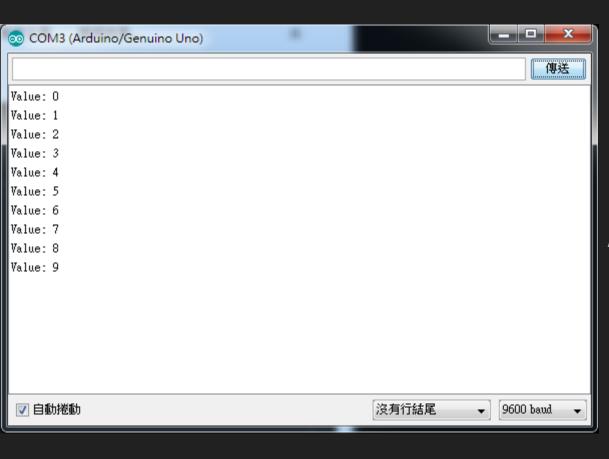
SerialValue=' '; //清空變數
if(Serial.available()){
 SerialValue=Serial.read();
 Serial.print("Value: ");

Serial.println(SerialValue);



在右上角打開監控視窗

隨意輸入



Arduino會個別讀取



```
switch(SerialValue){
    case '0':
        Serial.println("Input : 0");
        break;
    case '1':
        Serial.println("Input : 1");
        break;
    case '2':
        Serial.println("Input : 2");
        break;
```