

```
Code:
void setup()
{
Serial.begin(9600);
pinMode(8, OUTPUT);
pinMode(A0, INPUT);
pinMode(2, OUTPUT);
pinMode(7, INPUT);
pinMode(4, OUTPUT);
}
void loop()
{
if (digitalRead(7) == 1) {
 tone(4, 523, 1000); // play tone 60 (C5 = 523 Hz)
} else {
  noTone(4);
```

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}
delay(10); // Delay a little bit to improve simulation performance
int temp = analogRead(A0);
 if (temp>50)
  tone(8, 1000);
  digitalWrite(2, HIGH);
  delay(2000);
}
 else
 {
  noTone(8);
  digitalWrite(2,LOW);
  delay(2000);
}
}
```