



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);
  }
  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);
}
}
```