



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);  
}  
}
```