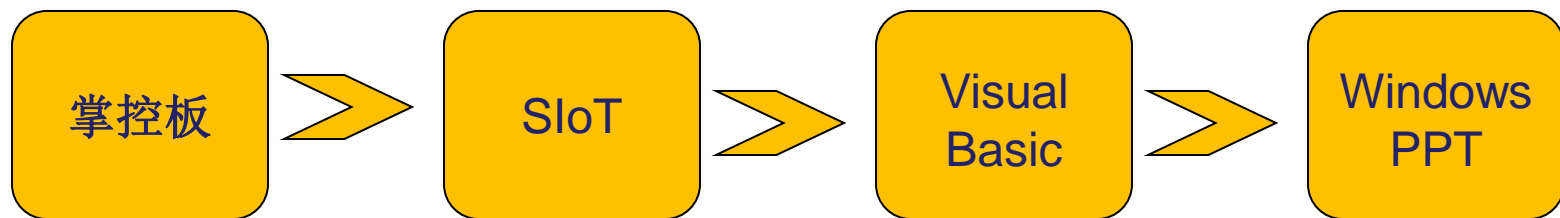


掌控板PPT翻页笔

—— 创客教育 ——

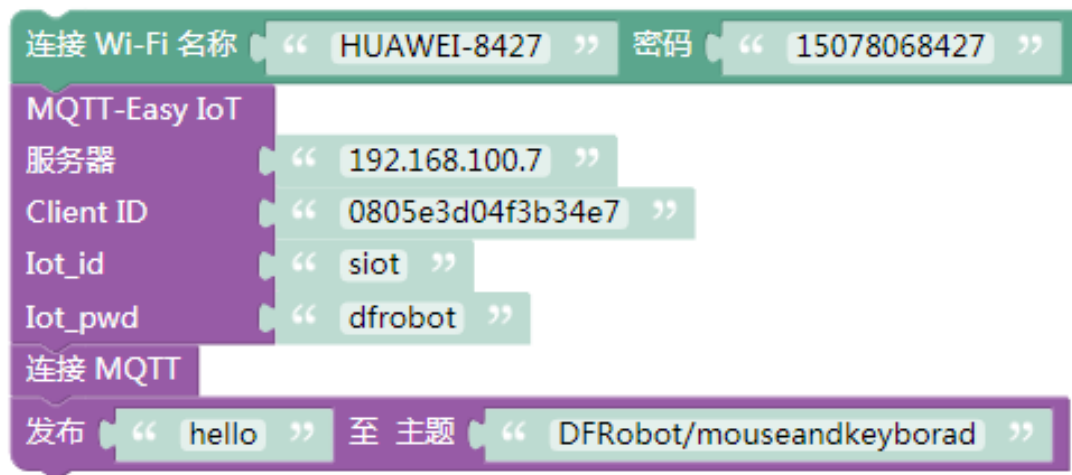
By Luyi
2020. 2. 18

1、实现思路



2、掌控板编程

(1) 连接网络，并连接到SIoT服务器



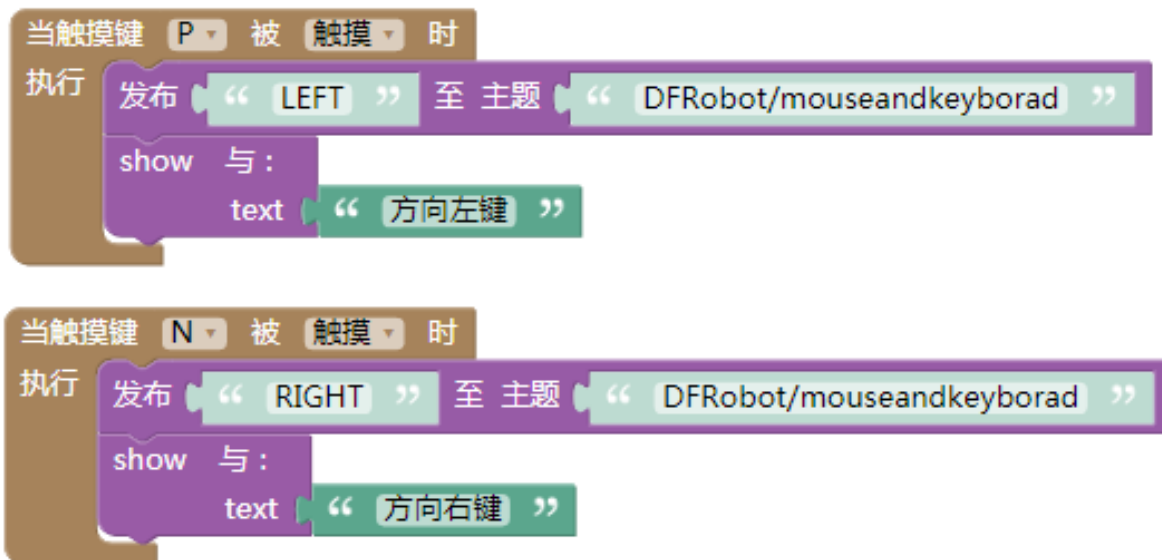
2、掌控板编程

(2) 封装OLED屏显示函数



2、掌控板编程

(3) 绑定各个按键事件



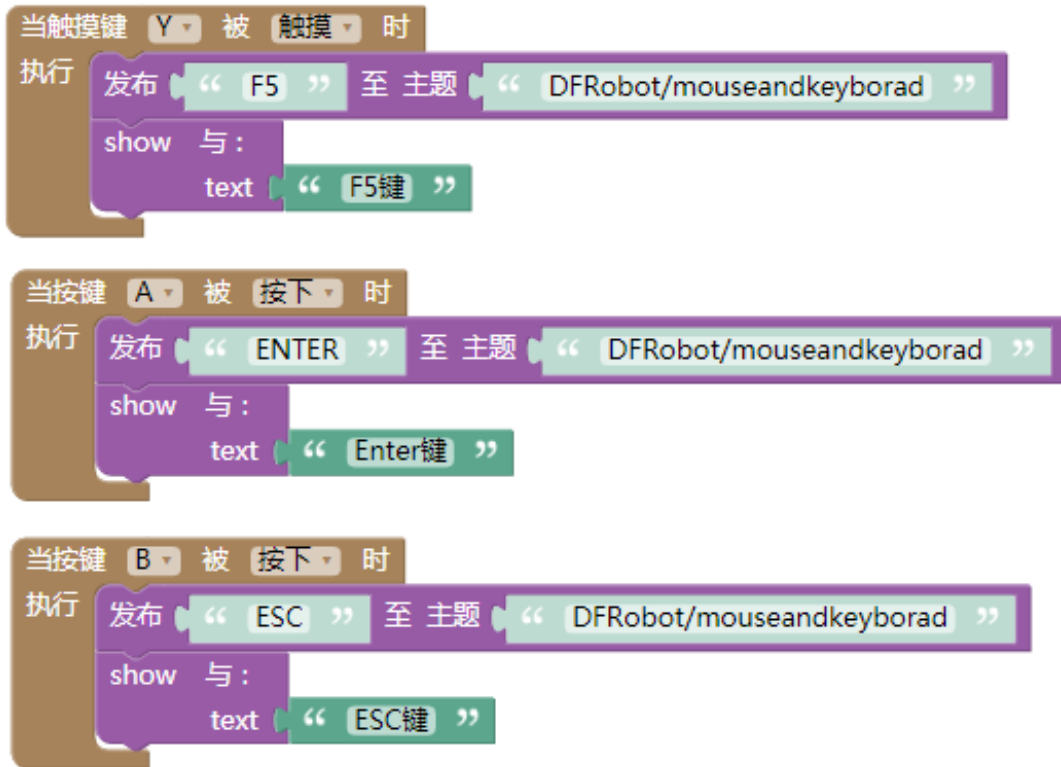
2、掌控板编程

(3) 绑定各个按键事件



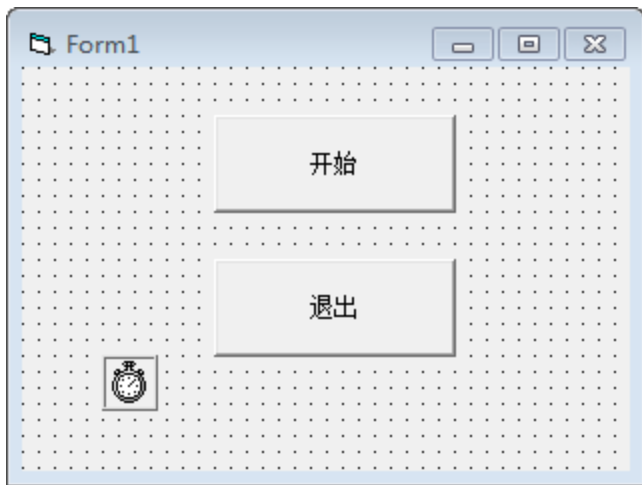
2、掌控板编程

(3) 绑定各个按键事件



3、Visual Basic编程

(1) 添加“开始”和“退出”两个命令按钮，和一个定时器



3、Visual Basic编程

(2) 定时器Enable初始状态设置为：False，点击“开始”按钮后，才启动定时器。

退出按钮，直接退出程序

```
48 Private Sub Command1_Click()  
49     Timer1.Enabled = True  
50 End Sub  
51  
52 Private Sub Command2_Click()  
53     End  
54 End Sub  
55
```

3、Visual Basic编程

(3) 定时器重复执行:

- ①请求获取SIoT最新一条消息记录
- ②解析接收到的JSON数据（截取）
- ③判断接收到消息字符
- ④根据不同的字符，执行不同的Windows操作

3、Visual Basic编程

(4) 定时器关键代码:

```
Set xmlhttp = CreateObject("MSXML2.ServerXMLHTTP") '成功
strUrl = "http://192.168.100.7:8080/lastmessage?topic=DFRobot/mouseandkeyborad@iname=siot@ipwd=dfrobot" '请求服务器
xmlhttp.open "GET", strUrl, False
xmlhttp.send

If xmlhttp.ReadyState = 4 Then
    responseStr = xmlhttp.responseText '服务器返回的JSON数据 形如{"code":1,"data":[{"ID":102,"Topic":"DFRobot/mous
    pos1 = InStr(1, responseStr, search1, 1)
    pos2 = InStr(1, responseStr, search2, 1)
    msg = Mid(responseStr, pos1 + 10, pos2 - 3 - pos1 - 10) '截取获取siot的消息msg

    posID1 = InStr(1, responseStr, searchID1, 1)
    posID2 = InStr(1, responseStr, searchID2, 1)
    ID = Mid(responseStr, posID1 + 4, posID2 - 3 - posID1 - 3)
    If ID <> IDpre Then '为了防止请求到的消息不是同一条消息，需要对比消息ID，IDpre是全局变量
        IDpre = ID
        Rem 键盘操作
        If msg = "LEFT" Then
            SendKeys "{LEFT}"
        ElseIf msg = "RIGHT" Then
            SendKeys "{RIGHT}"
        ElseIf msg = "UP" Then
            SendKeys "{UP}"
        ElseIf msg = "DOWN" Then
            SendKeys "{DOWN}"
        ElseIf msg = "F5" Then
            SendKeys "{F5}"
        ElseIf msg = "ESC" Then
            SendKeys "{ESC}"
        ElseIf msg = "ENTER" Then
            SendKeys "{ENTER}"
        End If
    End If

End If

End If
Set xmlhttp = Nothing
```