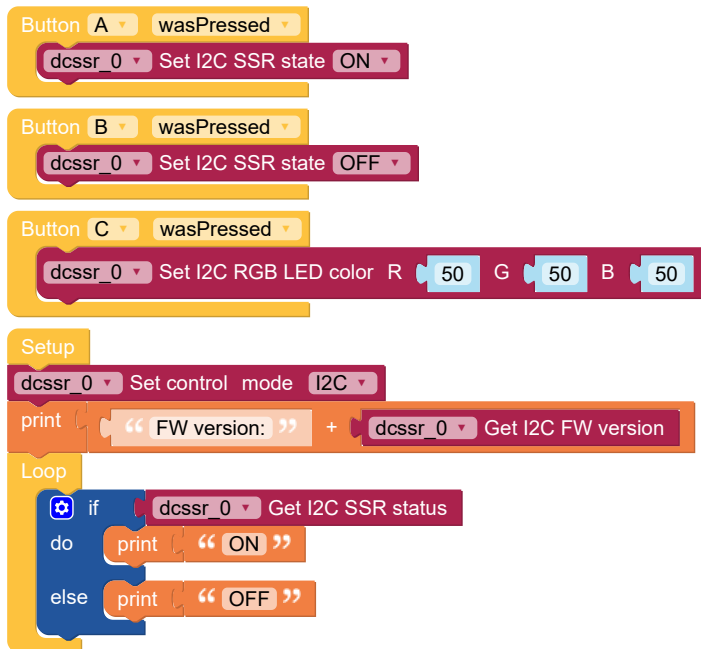


Unit DCSSR

| 案例程序

点击按键，控制继电器的输入输出状态以及 RGB 的灯亮灭



```

from m5stack import *
from m5ui import *
from uiflow import *
import unit

setScreenColor(0x444444)
dcssr_0 = unit.get(unit.DC_SSR, unit.PORTA)

def buttonA_wasPressed():
    # global params
    dcssr_0.set_i2c_ssr_state(1)
    pass
btnA.wasPressed(buttonA_wasPressed)

def buttonB_wasPressed():
    # global params
    dcssr_0.set_i2c_ssr_state(0)
    pass
btnB.wasPressed(buttonB_wasPressed)

def buttonC_wasPressed():
    # global params
    dcssr_0.set_i2c_rgb_led(50, 50, 50)
    pass
btnC.wasPressed(buttonC_wasPressed)

dcssr_0.init_mode(1)
print((str('FW version:') + str((dcssr_0.get_i2c_status(0xFE))))))
while True:
    if dcssr_0.get_i2c_ssr_status():
        print('ON')
    else:
        print('OFF')
    wait_ms(2)

```

功能说明

dcssr_0 Init I2C address 0x50

```
dcssr_0.init_i2c_address(0x50)
```

- 初始化设置 DCSSR Unit 的 I2C 通讯地址

dcssr_0 ▾ Init modbus slave address 4 UART id 1 ▾ baudrate 115200 data bits 8 ▾ stop bits 1 ▾ parity None ▾

```
dcssr_0.init_modbus(4, 1, 115200, 8, 1, None)
```

- 初始化 Modbus 通讯格式

dcssr_0 ▾ Get I2C RGB LED value

```
print(dcssr_0.get_i2c_rgb_led())
```

- 通过 i2c 获取 RGB 的值

dcssr_0 ▾ Get I2C SSR status

```
print(dcssr_0.get_i2c_ssr_status())
```

- 通过 I2C 获取 SSR 的开关状态

dcssr_0 ▾ Get I2C FW version

```
print(dcssr_0.get_i2c_status(0xFE))
```

- 通过 I2C 模式获取固件版本

dcssr_0 ▾ Get modbus RGB LED value

```
print(dcssr_0.get_modbus_rgb_led())
```

- 通过 Modbus 通讯方式获取 RGB 的值

dcssr_0 ▾ Get modbus SSR status

```
print(dcssr_0.get_i2c_ssr_status())
```

- 通过 Modbus 获取 SSR 的开关状态

dcssr_0 ▾ Get modbus FW version

```
print(dcssr_0.get_modbus_ssr_status())
```

- 通过 Modbus 模式获取固件版本

dcssr_0 Set control mode I2C

```
dcssr_0.init_mode(1)
```

- 设置 DCSSR Unit 的通讯模式, I2C 或者是 Modbus

dcssr_0 Set I2C address 0x50

```
dcssr_0.set_i2c_address(0x50)
```

- 设置 DCSSR 的 i2c 地址

dcssr_0 Set I2C RGB LED color R 50 G 50 B 50

```
dcssr_0.set_i2c_rgb_led(50, 50, 50)
```

- 通过 i2c 设置 RGB 值

dcssr_0 Set I2C SSR state ON

```
dcssr_0.set_i2c_ssr_state(1)
```

- 设置 SSR 设备的开关状态

dcssr_0 Set modbus address 0x50

```
dcssr_0.set_modbus_address(0x50)
```

- 设置 DCSSR 的 i2c 地址

dcssr_0 Set modbus RGB LED color R 50 G 50 B 50

```
dcssr_0.set_modbus_rgb_led(50, 50, 50)
```

- Modbus 设置 LED 的 RGB 值

dcssr_0 Set modbus SSR state ON

```
dcssr_0.set_modbus_ssr_state(1)
```

- Modbus 设置 SSR 的状态开关