

```

on start
  set state to "ARMED"
  set arm to icon image
  set trip to icon image
  show image arm at offset 0

forever
  if state = "ARMED"
  then
    if digital read pin P0 = 0
    then
      show image trip at offset 0
      digital write pin P1 to 1
      set state to "TRIPPED"
    else if state = "TRIPPED"
    then
      if button A is pressed
      then
        show image arm at offset 0
        digital write pin P1 to 0
        set state to "ARMED"
  
```

## Example Program – JavaScript Blocks Editor

- Go to [www.microbit.org/code](http://www.microbit.org/code) and open the **JavaScript Blocks Editor**.
- Drag the file **microbit-security-jsb.hex** onto the work area.
- You will need to attach a **suitable input** to pin 0 and **output** to pin 1.
- Test it, download it and **experiment** with how it works!

```
1 from microbit import *
2
3 ARM = Image.HAPPY
4 TRIP = Image.NO
5 display.show(ARM)
6 state = "ARMED"
7
8 while True:
9     if state == "ARMED":
10        if pin0.read_digital() == 0:
11            display.show(TRIP)
12            pin1.write_digital(1)
13            state = "TRIPPED"
14
15        elif state == "TRIPPED":
16            if button_a.was_pressed():
17                display.show(ARM)
18                pin1.write_digital(0)
19                state = "ARMED"
20
```

## Example Program – Python Editor

- Go to [www.microbit.org/code](http://www.microbit.org/code) and open the **Python Editor**.
- Drag the file **security.py** onto the work area.
- You will need to attach a **suitable input** to pin 0 and **output** to pin 1.
- Test it, download it and **experiment** with how it works!