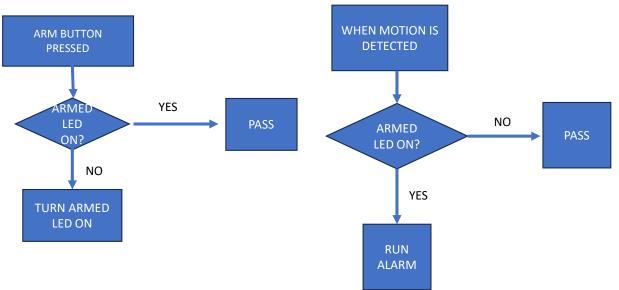
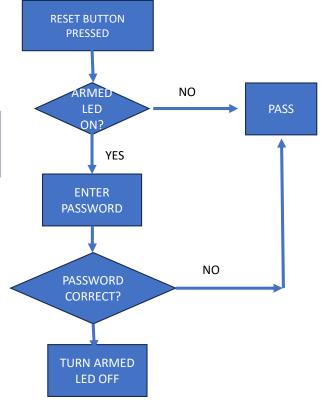


Ex 6a. Enhancing the simple Burglar Alarm
A Burglar alarm should work only when it is activated
And should be deactivated when it is not required
Activated means armed_led is switched ON



Ex 6a is just a revision for functions and conditional statements Codes are provided on the next page.

Try doing it first on your own without referring to the codes in the cheat sheet



CHEAT SHEET FOR THE ENHANCED BURGLAR ALARM

```
from machine import Pin
from time import sleep
sensor_pir = Pin(15,Pin.IN)
led = Pin(13,Pin.OUT)
buzz = Pin(12,Pin.OUT)

arm_button=Pin(16,Pin.IN, Pin.PULL_DOWN)
armed_led = Pin(10,Pin.OUT)
disarm_button = Pin(11,Pin.IN, Pin.PULL_DOWN)
password='12345'
```

```
def alarm():
12
        for x in range(1,11,1):
13
14
            led.on()
            buzz.on()
15
            sleep(.5)
16
17
            led.off()
            buzz.off()
18
            sleep(.5)
19
```

```
22 def armburglaralarm():
        if armed led.value() == 0:
23
24
            armed led.on()
25
        else:
26
            pass
27
28
    def disarmburglaralarm():
        if armed led.value() == 0:
29
30
            pass
31
        else:
32
            pwd=input('Enter Disarm Password ' )
33
            if pwd == password:
                armed led.off()
34
35
            else:
36
                 pass
27
```

```
40 armed led.off()
41 buzz.off()
   while True:
42
        if arm button.value() == 1:
43
44
            armburglaralarm()
        if disarm button.value() ==1:
45
            disarmburglaralarm()
46
        if sensor pir.value()==1 and armed led.value()==1:
47
            print('detected')
48
49
            alarm()
50
```