2/25/2019 ada.py

```
from mqttclient import MQTTClient
   from time import sleep
2
 3
   import math
4
5
   server = "io.adafruit.com"
   # update with your values from AdafruitIO ...
   aio_user = "ashwin_kannan"
7
   aio_key = "73609b18b6204c14aa793035fce4161d"
8
9
   mqtt = MQTTClient(server=server, user=aio_user, password=aio_key, ssl=True)
10
11
12
   for t in range(100):
13
        s = math.sin(t/10)
       mqtt.publish("{}/feeds/sms-feed".format(aio_user), str(s))
14
15
       time.sleep(3)
```

2/25/2019 harvest.py

```
from busio import I2C
 1
   from board import SDA, SCL
2
 3
   from adafruit_bme680 import Adafruit_BME680_I2C as BME680
4
5
   i2c = I2C(scl=SCL, sda=SDA)
   bme = BME680(i2c, address=0x76)
6
7
8
   temperature = []
9
   gas = []
   humidity = []
10
   pressure = []
11
12
   altitude = []
13
   while True:
14
15
        temperature += [bme.temperature]
        gas += [bme.gas]
16
        humidity += [bme.humidity]
17
        pressure += [bme.pressure]
18
19
        altitude += [bme.altitude]
20
        time.sleep(1)
```

2/25/2019 sleep.py

```
from time import sleep
from machine import deepsleep, Pin
from board import LED

led = Pin(LED, mode=Pin.OUT)
led(1)
sleep(10)
led(0)
deepsleep(15000)
```

