

Assignment -2

Python Programming

Date	19 September 2022
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Project Name	IOT BASED SMART PROTECTION SYSTEM FOR AGRICULTURE.
Maximum Marks	2 Marks

Question – 1

Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Solution:

```
import random

import time

while (1):

    temp = random.uniform(0,100)

    humi = random.uniform(0,100)

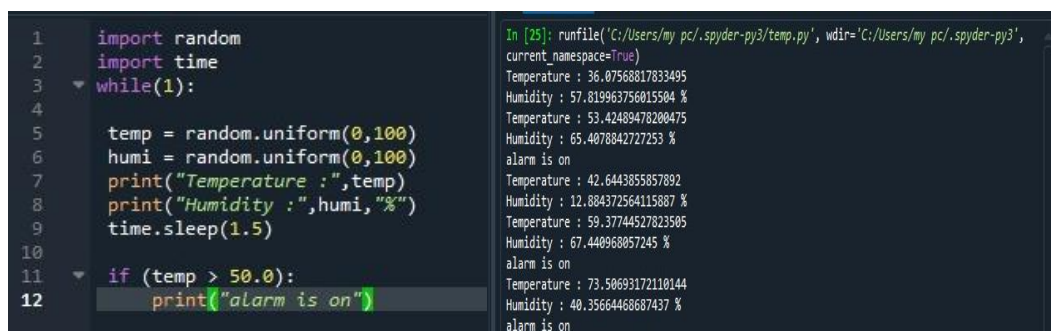
    print("Temperature :",temp)

    print("Humidity :",humi,"%")

    time.sleep(1.5)

    if (temp > 50.0):

        print("alarm is on")
```



```
1 import random
2 import time
3 while(1):
4
5     temp = random.uniform(0,100)
6     humi = random.uniform(0,100)
7     print("Temperature :",temp)
8     print("Humidity :",humi,"%")
9     time.sleep(1.5)
10
11     if (temp > 50.0):
12         print("alarm is on")
```

In [25]: runfile('C:/Users/my pc/.spyder-py3/temp.py', wdir='C:/Users/my pc/.spyder-py3', current_namespace=True)

Temperature : 36.07568817833495
Humidity : 57.819963756015504 %
Temperature : 53.42489478200475
Humidity : 65.4078842727253 %
alarm is on
Temperature : 42.6443855857892
Humidity : 12.884372564115887 %
Temperature : 59.37744527823505
Humidity : 67.440968057245 %
alarm is on
Temperature : 73.50693172110144
Humidity : 40.35664468687437 %
alarm is on