ASSIGNMENT-02

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Date	21/09/2022
Team ID	PNT2022TMID38983
Project Name	Smart farmer- IOT Enabled Smart Farming Application
Maximum marks	2 Marks

Question:

Assignment on temperature and humidity sensing and alarm automation using python

Solution:

import random

temp=random.uniform(0,50

)

#by using random.uniform function a random float value will be generated

for temp for

#example:25.718184973594976

print("TEMPERATURE:",te

mp) temp=round(temp, 2)

#by using round of function the decimal points in the temp will be reduced

for example:25.7

print("TEMPERATURE:",temp)

#by using if condtion & elif condition the temp level is

observed if(temp<=0):

print("very cold")

elif(temp<=20):

print("cold")

elif(temp<=30):

print("Room

temp")

elif(temp<=45):

```python
    print("hot")
else:
    print("very hot alarm will be on")
humidity=random.randint(0,100)
#by using random.randint function a random int value will be
generated for humidity for example:55
print ("HUMIDITY:",humidity)
#by using if condtion & elif condition the humidity level is observed
if(humidity==0):
    print("no humidity")
elif(humidity<=50):
    print("humidity is
low") else:
    print("humidity is high alarm will be
on")
```

OUTPUT:

TEMPERATURE: 5.14227964069941

TEMPERATURE: 5.14

cold

HUMIDITY:

75

humidity is high alarm will be on