ASSIGNMENT-02

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Date	21/09/2022
Team ID	PNT2022TMID46404
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):
print("hot") else:
```

```
print("very hot alarm will be
on")
humidity=random.randint(0,10
0)
#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
```