

ASSIGNMENT- 02

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TeamID	PNT2022TMD17065
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:",temp)
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 condition & 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=randomrandint(0,100)
# by using randomrandint function a randomint value will be generated for
humidity for example:55 print ("HUMIDITY:",humidity)
# by using if condition & 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