ASSIGNMENT-02

Team Leader	SANJAY N
Register Number	6113191041089
Date	04/11/2022
Team ID	PNT2022TMID17065
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 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(0,100)
# 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: 5.142279640699 41
TEMPERATURE: 5.14
cold
HUMIDITY: 75 humidity is high
alarm will be on
```