

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:",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: 5.14227964069941

TEMPERATURE: 5.14

cold

HUMIDITY: 75

humidity is high alarm will be on