

Sri Krishna College of Technology

Assignment 2

Team Id: PNT2022TMID20041

Question:

Build a python code, assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Code:

```
import random
```

```
while(True):
```

```
    temp=random.randint(0,99)
```

```
    humidity=random.randint(0,99)    if(temp>30
```

```
and humidity<40):
```

```
        print("\n")
```

```
        print("High    temperature    detected:",temp,"\nHigh    humidity  
detected:",humidity,"\n-----Alarm is on-----")    time.sleep(1)
```

```
    elif(temp<30 and humidity>40):
```

```
print("\n")

print("Low temperature      detected:",temp,"\nLow      humidity
detected:",humidity,"\n-----Alarm is off-----")

time.sleep(1)
```

assinment 2.py - C:/Users/RAVI TEJA/AppData/Local/Programs/Python/Python39/assinment 2.py (3.9.4)

File Edit Format Run Options Window Help

```
import random
import time
while(True):
    temp=random.randint(0,99)
    humidity=random.randint(0,99)
    if(temp>30 and humidity<40):
        print("\n")
        print("High temperature detected:",temp,"\nHigh humidity detected:",humidity,"\n-----Alarm is on-----")
        time.sleep(1)

    elif(temp<30 and humidity>40):
        print("\n")
        print("Low temperature detected:",temp,"\nLow humidity detected:",humidity,"\n-----Alarm is off-----")
        time.sleep(1)
```

```
*IDLE Shell 3.9.4*
File Edit Shell Debug Options Window Help
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/RAVI TEJA/AppData/Local/Programs/Python/Python39/assinment 2
.PY

Low temperature detected: 13
Low humidity detected: 98
-----Alarm is off-----

High temperature detected: 66
High humidity detected: 2
-----Alarm is on-----

High temperature detected: 63
High humidity detected: 8
-----Alarm is on-----

High temperature detected: 87
High humidity detected: 19
-----Alarm is on-----

High temperature detected: 64
High humidity detected: 5
-----Alarm is on-----

Low temperature detected: 14
Low humidity detected: 51
-----Alarm is off-----

High temperature detected: 85
High humidity detected: 29
```