

Assignment -2

Hazardous Area Monitoring for Industrial Plant powered by IoT

Assignment Date: 2nd November 2022


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Problem statement:

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.

Solution:

 IBM- Assignment 2.py - C:/Users/91934/Downloads/IBM- Assignment 2.py (3.9.1)

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```
import random
import time
while (1):
    temp= random.randint(0, 100)
    humi= random.randint(0, 100)
    thresht=40
    threshh=35
    if temp>thresht :
        print("ALERT!!! Detected temperature is: "+str(temp)+"°C")
    if humi> threshh :
        print("ALERT!!! Detected Humidity is: "+str(humi))
    time.sleep(1)
```

Simulation:

```
===== RESTART: C:/Users/91934/Downloads/IBM- Assignment 2.py =====  
ALERT!!! Detected Humidity is: 68  
ALERT!!! Detected temperature is: 70°C  
ALERT!!! Detected Humidity is: 54  
ALERT!!! Detected temperature is: 72°C  
ALERT!!! Detected Humidity is: 72  
ALERT!!! Detected temperature is: 62°C  
ALERT!!! Detected temperature is: 78°C  
ALERT!!! Detected Humidity is: 81  
ALERT!!! Detected Humidity is: 47  
ALERT!!! Detected temperature is: 76°C  
ALERT!!! Detected Humidity is: 95  
ALERT!!! Detected Humidity is: 59  
ALERT!!! Detected temperature is: 52°C  
ALERT!!! Detected Humidity is: 68  
ALERT!!! Detected temperature is: 44°C  
ALERT!!! Detected temperature is: 53°C  
ALERT!!! Detected Humidity is: 69
```

Result:

Thus, I have successfully compiled a python code for continuously detect alarm in case of high temperature