

IBM - NALAYA THIRAN

PROJECT

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PROJECT	Signs with Smart Connectivity for Better Road Safety
ASSIGNMENT NO	2

QUESTION: Build a python code, assume you 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.

PROGRAM:

```
import
random
import
time

while (1):

    temp = random.randint(0, 100)
    humidity = random.randint(0,100)

    if temp>60:

        print("ALERT!! WARNING!! Detected temperature: "+str(temp)+"°C")

time.sleep(1)
```

OUTPUT:



The screenshot shows a code editor with a Python script and its output. The script is a loop that generates random temperature and humidity values. If the temperature is greater than 60, it prints an alert message. The output shows multiple iterations of the loop, with the alert message being printed for temperatures 61°C, 72°C, 75°C, 67°C, 76°C, 94°C, 80°C, 71°C, 91°C, 72°C, 86°C, 84°C, and 61°C.

```
import random
import time

while (1):
    temp = random.randint(0, 100)
    humidity = random.randint(0, 100)
    if temp>60:
        print ("ALERT!! WARNING!! Detected temperature: "+str(temp)+"°C")
    time.sleep(1)
```

ALERT!! WARNING!! Detected temperature: 61°C
ALERT!! WARNING!! Detected temperature: 72°C
ALERT!! WARNING!! Detected temperature: 75°C
ALERT!! WARNING!! Detected temperature: 67°C
ALERT!! WARNING!! Detected temperature: 76°C
ALERT!! WARNING!! Detected temperature: 94°C
ALERT!! WARNING!! Detected temperature: 80°C
ALERT!! WARNING!! Detected temperature: 71°C
ALERT!! WARNING!! Detected temperature: 91°C
ALERT!! WARNING!! Detected temperature: 72°C
ALERT!! WARNING!! Detected temperature: 86°C
ALERT!! WARNING!! Detected temperature: 84°C
ALERT!! WARNING!! Detected temperature: 61°C