ASSIGNMENT - 2
PYTHON PROGRAMMING

PROBLEM STATEMENT:

To build a python code and assume that we get temperature and humidity values and continuously detect alarm in case of high temperature.

CODE:

Getting the temperature and humidity as random values and checking both the values if the values move above the threshold value, then an alert will be given.

```python
import random
from time import sleep

def generate_values():
    temperature = random.randint(10, 50)
    humidity = random.randint(10, temperature)
    return humidity, temperature

humidity = temperature = 0

while temperature < 45 and humidity<20:
    humidity, temperature = generate_values()
    print('Humidity:', humidity, 'Temperature:', temperature)
    sleep(0.50)

print('High Temperature and Humidity is Detected')
```

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OUTPUT:

```
Humidity: 14 Temperature: 19
Humidity: 22 Temperature: 37
High Temperature and Humidity is Detected
```

```
Humidity: 10 Temperature: 10
Humidity: 19 Temperature: 24
Humidity: 11 Temperature: 29
Humidity: 20 Temperature: 20
High Temperature and Humidity is Detected
```