

## Assignment -2

### High Temperature Detector

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#### **PROBLEM:**

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

#### **CODE:**

```
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
i=0
while i<=10:
    humidity, temperature = generate_values()
    print('Humidity:', humidity, 'Temperature:', temperature)
    if temperature>=30:
        print('Alarm Activated : High Temperature Detected\n')
    i=i+1
    sleep(0.10)
```

## **OUTPUT :**

```
Humidity: 16 Temperature: 41  
Alarm Activated : High Temperature Detected
```

```
Humidity: 26 Temperature: 29  
Humidity: 13 Temperature: 37  
Alarm Activated : High Temperature Detected
```

```
Humidity: 19 Temperature: 33  
Alarm Activated : High Temperature Detected
```

```
Humidity: 12 Temperature: 13  
Humidity: 11 Temperature: 21  
Humidity: 22 Temperature: 41  
Alarm Activated : High Temperature Detected
```

```
Humidity: 19 Temperature: 22  
Humidity: 25 Temperature: 35  
Alarm Activated : High Temperature Detected
```

```
Humidity: 28 Temperature: 29  
Humidity: 25 Temperature: 26
```