

ASSIGNMENT 2

DOMAIN: IOT

PROJECT TITLE: GAS DETECTION MONITORING & ALERTING SYSTEM

TEAM ID: PNT2022TMID44793

TEAM MEMBERS:

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|---------------------------|--------------|
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Write a condition to continuously detect alarm in case of high temperature

The screenshot shows a Python IDE with a file named 'main.py'. The code is as follows:

```
1 import random
2 while(True):
3     T=random.randint(10,99)
4     H=random.randint(10,99)
5     if(T>30 and H<40):
6         print("High Temp and Values of Temperature & Humidity is:"
              ,T,H,"Alarm is ON")
7     elif(T<30 and H>40):
8         print("Low Temp and Values of Temperature & Humidity is:"
              ,T,H,"Alarm is OFF")
```

The output in the Shell window shows the following sequence of events:

```
Low Temp and Values of Temperature & Humidity is: 24 43 Alarm is OFF
Low Temp and Values of Temperature & Humidity is: 10 63 Alarm is OFF
Low Temp and Values of Temperature & Humidity is: 27 80 Alarm is OFF
High Temp and Values of Temperature & Humidity is: 32 29 Alarm is ON
High Temp and Values of Temperature & Humidity is: 48 36 Alarm is ON
High Temp and Values of Temperature & Humidity is: 77 33 Alarm is ON
High Temp and Values of Temperature & Humidity is: 74 25 Alarm is ON
High Temp and Values of Temperature & Humidity is: 63 13 Alarm is ON
Low Temp and Values of Temperature & Humidity is: 13 88 Alarm is OFF
Low Temp and Values of Temperature & Humidity is: 27 71 Alarm is OFF
Low Temp and Values of Temperature & Humidity is: 12 95 Alarm is OFF
Low Temp and Values of Temperature & Humidity is: 15 60 Alarm is OFF
High Temp and Values of Temperature & Humidity is: 75 23 Alarm is ON
High Temp and Values of Temperature & Humidity is: 99 31 Alarm is ON
High Temp and Values of Temperature & Humidity is: 39 37 Alarm is ON
```