ASSIGNMENT -2

PROJECT TITLE: HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANT POWERED BY IOT

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CODE:

```
import random
threshold_temperature=80
threshold_humidity=30
while True:
   temperature=random.randint(1,100)
   humidity=random.randint(1,50)
   print(humidity)
   print(temperature)
   if(temperature>threshold_temperature or humidity>threshold_humidity):
       print("HIGH TEMPERATURE & ALARM TRIGGERS")
   elif(humidity<threshold_humidity or temperature>threshold_temperature):
      print("LOW TEMPERATURE &ALARM TURNS OFF")
   else:
      print("NORMAL TEMPERATURE & ALARM TURNS OFF")
```

OUTPUT:

```
56
LOW TEMPERATURE &ALARM TURNS OFF
13
24
LOW TEMPERATURE &ALARM TURNS OFF
24
45
LOW TEMPERATURE &ALARM TURNS OFF
13
61
LOW TEMPERATURE &ALARM TURNS OFF
2
81
HIGH TEMPERATURE & ALARM TRIGGERS
38
77
HIGH TEMPERATURE & ALARM TRIGGERS
24
77
LOW TEMPERATURE &ALARM TURNS OFF
42
67
HIGH TEMPERATURE & ALARM TRIGGERS
14
34
LOW TEMPERATURE &ALARM TURNS OFF
29
6
LOW TEMPERATURE &ALARM TURNS OFF
42
89
HIGH TEMPERATURE & ALARM TRIGGERS
40
53
HIGH TEMPERATURE & ALARM TRIGGERS
39
86
HIGH TEMPERATURE & ALARM TRIGGERS
14
31
LOW TEMPERATURE &ALARM TURNS OFF
14
```