ASSIGNMENT 2

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.

Code:

```
import random
import time
while(True):
    Temp=random.randint(20,48)
    Humd=random.randint(20,100)
    randomDelay = random.randint(1,3)
    time.sleep(randomDelay)
    print("\nTemperature =", Temp,"degree celsius")
    print("Humidity = ",Humd,"%")
    if(Temp>30vand Humd<40):
        print("Hazard Detected - Alarm is on")
    else:
    print("Alarm is off")</pre>
```

```
1 import random
2 import time
3 **while(True):
4 Temp-random.randint(20,48)
5 Humd-random.randint(20,100)
6 randomDelay = random.randint(1,3)
7 time.sleep(randomDelay)
8 print("Ntemperature = 7, Temp,"degree celsius")
9 print("Humidity = ",Humd,"%")
10 **if(Temp-30 and Humd<40):
11 print("Hazard Detected - Alarm is on")
12 else:
13 print("Alarm is off")
14 Temperature = 25 degree celsius
Humidity = 25 %
Alarm is off
Temperature = 26 degree celsius
Humidity = 75 %
Alarm is off
Temperature = 41 degree celsius
Humidity = 25 %
Hazard Detected - Alarm is on
Temperature = 28 degree celsius
Humidity = 88 %
Alarm is off
Temperature = 25 degree celsius
Humidity = 88 %
Alarm is off
Temperature = 25 degree celsius
Humidity = 89 %
Hazard Detected - Alarm is on
Temperature = 41 degree celsius
Humidity = 89 %
Alarm is off
Temperature = 25 degree celsius
Humidity = 89 %
Hazard Detected - Alarm is on
Temperature = 43 degree celsius
Humidity = 39 %
Hazard Detected - Alarm is on
Temperature = 48 degree celsius
Humidity = 39 %
Hazard Detected - Alarm is on
```