Assignment 2

Build a python code, assume u 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
from time import sleep

while True:
    temperature=round(random.uniform(10, 50),2)
    humidity=round(random.uniform(10, 100),2)
    print("\nTemperature =", temperature,"degree celsius")
    print("Humidity = ",humidity,"%")
    if(temperature>32):
        print("STATE : ALARM ON")
    else:
        print("STATE : ALARM OFF")
    sleep(5)
```

OUTPUT:

```
🕞 assignment 2 code.py - C:/Users/user/Documents/assignment 2 code.py (3.10.4)
                                                                                                                                                                                     *IDLE Shell 3.10.4*
File Edit Format Run Options Window Help
                                                                                                                                                                                     File Edit Shell Debug Options Window Help
import random
from time import sleep
                                                                                                                                                                                             Temperature = 29.83 degree celsius
Humidity = 63.82 %
STATE : ALARM OFF
     ile True:
    temperature=round(random.uniform(10, 50),2)
    humidity=round(random.uniform(10, 100),2)
    print("Alfemperature =", temperature,"degree celsius")
    print("Munidity =",humidity,"*")
    if(temperature>30):
        print("STATE : ALARM ON")
    else:
        print("STATE : ALARM OFF")
    sleep(5)
                                                                                                                                                                                             Temperature = 27.72 degree celsius
Humidity = 16.92 %
STATE : ALARM OFF
                                                                                                                                                                                             Temperature = 29.48 degree celsius
Humidity = 99.13 %
STATE : ALARM OFF
                                                                                                                                                                                              Temperature = 31.89 degree celsius
Humidity = 41.12 %
STATE : ALARM ON
                                                                                                                                                                                             Temperature = 10.32 degree celsius
Humidity = 59.12 %
STATE : ALARM OFF
                                                                                                                                                                                             Temperature = 47.89 degree celsius
Humidity = 63.93 %
STATE : ALARM ON
                                                                                                                                                                                             Temperature = 13.87 degree celsius
Humidity = 89.03 %
STATE : ALARM OFF
                                                                                                                                                                                              Temperature = 44.14 degree celsius
Humidity = 88.0 %
STATE : ALARM ON
                                                                                                                                                                                              Temperature = 14.06 degree celsius
Humidity = 41.27 %
STATE : ALARM OFF
                                                                                                                                                                                              Temperature = 13.84 degree celsius
Humidity = 55.56 %
STATE : ALARM OFF
                                                                                                                                                              Ln: 15 Col: 0
```