ASSIGNMENT-2

Build a python code, Assume you get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

| Assignment Date | 24 September 2022 |
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| Maximum Marks | 2 marks |

Question 1

Write code to Build a python code, Assume you get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

```
CODE:
import random
import time
thresh1=int(input("Enter threshold value for temperature:"))
thresh2=int
(input("Enter threshold value for humidity:"))
hu=0
tp=0
while(True):
  temp=random.uniform(1,100)
  humidity=random.uniform(1,50)
  print("temperature is : {0:.2f}".format(temp))
  print("humidity is : {0:.2f} %".format(humidity))
  time.sleep(2)
  if temp>=thresh1 and humidity<=thresh2:
    tp=1
    hu=1
    print("\nHigh ALERT\nHumidity alarm & Temperature alarm are ON \n")
    time.sleep(3)
```

```
elif humidity<=thresh2:
    tp=0
    hu=1
    print("\nHumidity alarm is ON & Temperature alarm is OFF \n")
    time.sleep(3)
elif temp>=thresh1:
    tp=1
    hu=0
    print("\nHumidity alarm is OFF & Temperature alarm is ON \n")
    time.sleep(3)
else:
    tp=0
    hu=0
    print("\nBoth alarms are OFF \n")
    time.sleep(3)
```