

Assignment -2
Python Programming

Assignment Date	28 September 2022
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Maximum Marks	2 Marks

Question-1:

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.

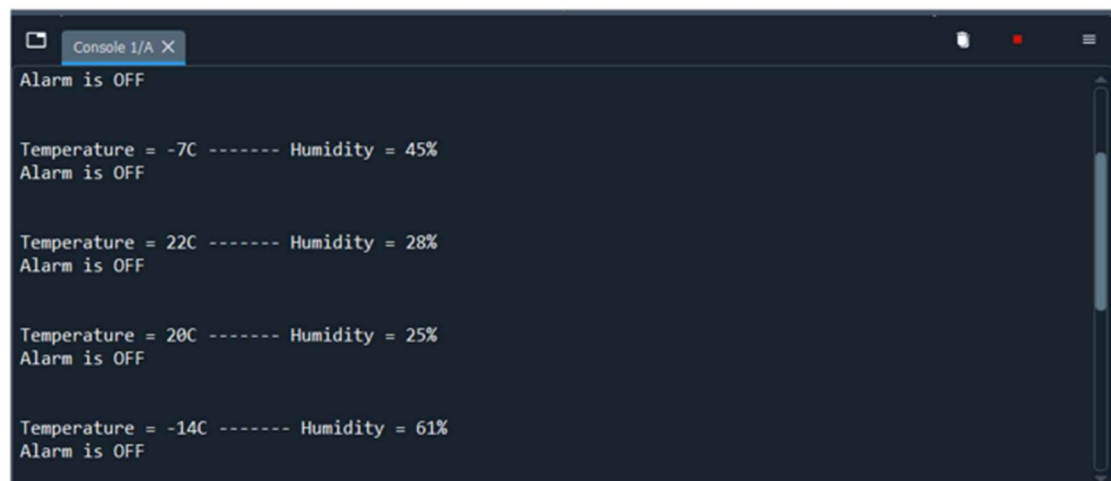
Solution:

```
import random
import winsound
import time
while True:
    temperature = random.randint(-68,49)
    humidity = random.randint(0,100)
    print(f"Temperature = {temperature}C ----- Humidity = {humidity}%")
    if temperature>35 and humidity >50:
        for i in range(10):
            winsound.Beep (1000, 10)
            print("Alarm is ON")
    else:
        print("Alarm is OFF")
    time.sleep(5)
    print()
    print()
```

PROGRAM:

```
1  import random
2  import winsound
3  import time
4
5
6  while True:
7      temperature = random.randint(-68,49)
8      humidity = random.randint(0,100)
9      print(f"Temperature = {temperature}C ----- Humidity = {humidity}%")
10     if temperature > 35 and humidity > 50:
11         for i in range(10):
12             winsound.Beep(1000,10)
13             print("Alarm is ON")
14     else:
15         print("Alarm is OFF")
16     time.sleep(5)
17
18     print()
19     print()
```

OUTPUT:



```
Console 1/A X
Alarm is OFF

Temperature = -7C ----- Humidity = 45%
Alarm is OFF

Temperature = 22C ----- Humidity = 28%
Alarm is OFF

Temperature = 20C ----- Humidity = 25%
Alarm is OFF

Temperature = -14C ----- Humidity = 61%
Alarm is OFF
```