

Assignment -2
Python Programming

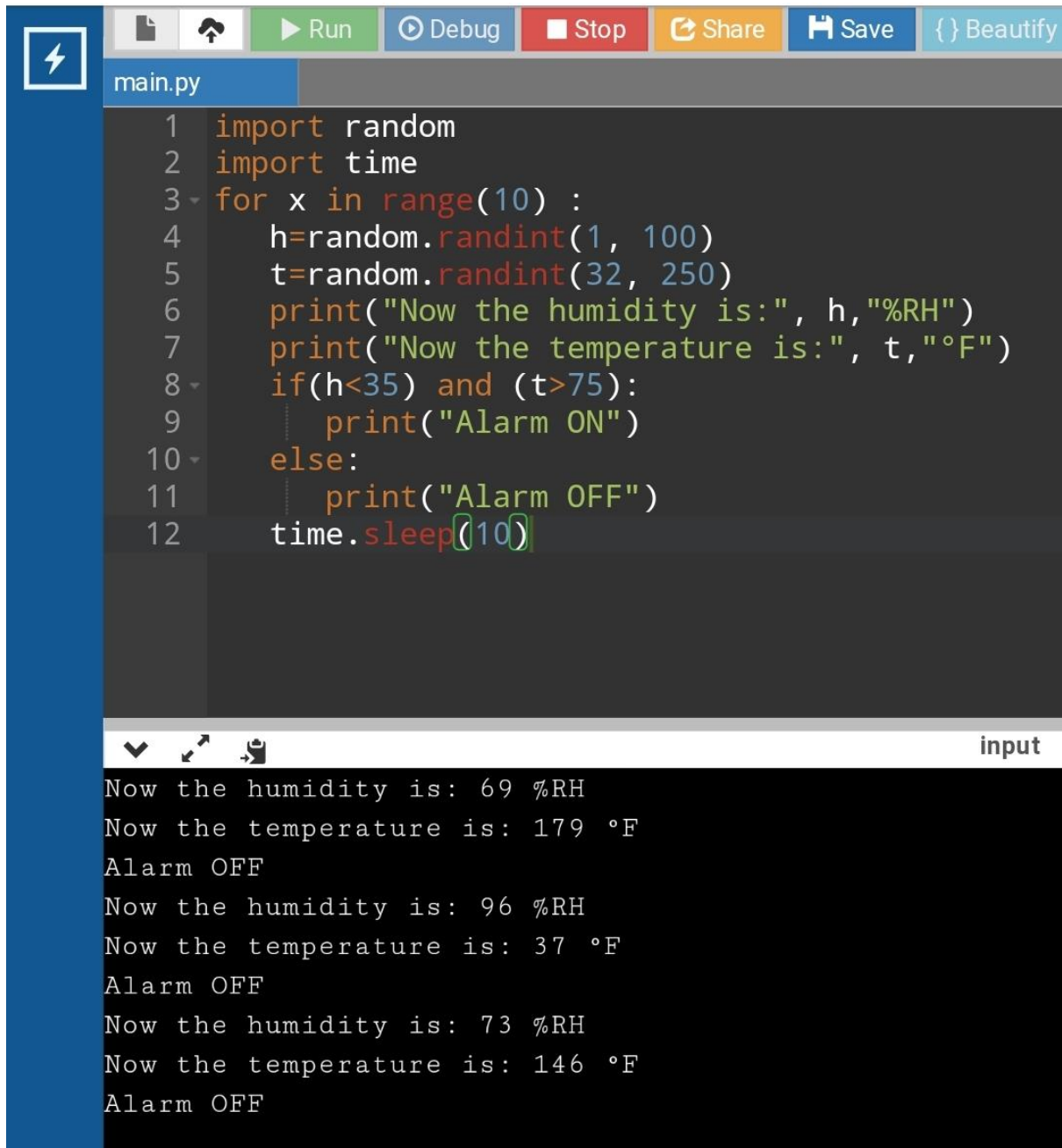
Assignment Date	22 September 2022
Student Name	V.ASWIN MUTHIAH
Student Roll Number	190801017
Maximum Marks	2 Marks

Question-1:

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.

Solution:

```
import random
import time
for x in range(10) :
    h=random.randint(1,100)
    t=random.randint(32,250)
    print("Now the humidity is:", h,"%RH")
    print("Now the temperature is:", t,"°F")
    if(h<35) and (t>75):
        print("Alarm ON")
    else:
        print("Alarm OFF")
    time.sleep(10)
```



The image shows a code editor interface with a dark theme. At the top, there is a toolbar with icons for file operations and buttons for 'Run', 'Debug', 'Stop', 'Share', 'Save', and 'Beautify'. The file name 'main.py' is displayed in the tab. The code is a Python script that imports 'random' and 'time', then enters a loop that generates random humidity and temperature values, prints them, and checks if an alarm should be on or off based on specific thresholds. The output window at the bottom shows the results of the script's execution.

```
1 import random
2 import time
3 for x in range(10) :
4     h=random.randint(1, 100)
5     t=random.randint(32, 250)
6     print("Now the humidity is:", h,"%RH")
7     print("Now the temperature is:", t,"°F")
8     if(h<35) and (t>75):
9         print("Alarm ON")
10    else:
11        print("Alarm OFF")
12    time.sleep(10)
```

input

Now the humidity is: 69 %RH
Now the temperature is: 179 °F
Alarm OFF
Now the humidity is: 96 %RH
Now the temperature is: 37 °F
Alarm OFF
Now the humidity is: 73 %RH
Now the temperature is: 146 °F
Alarm OFF