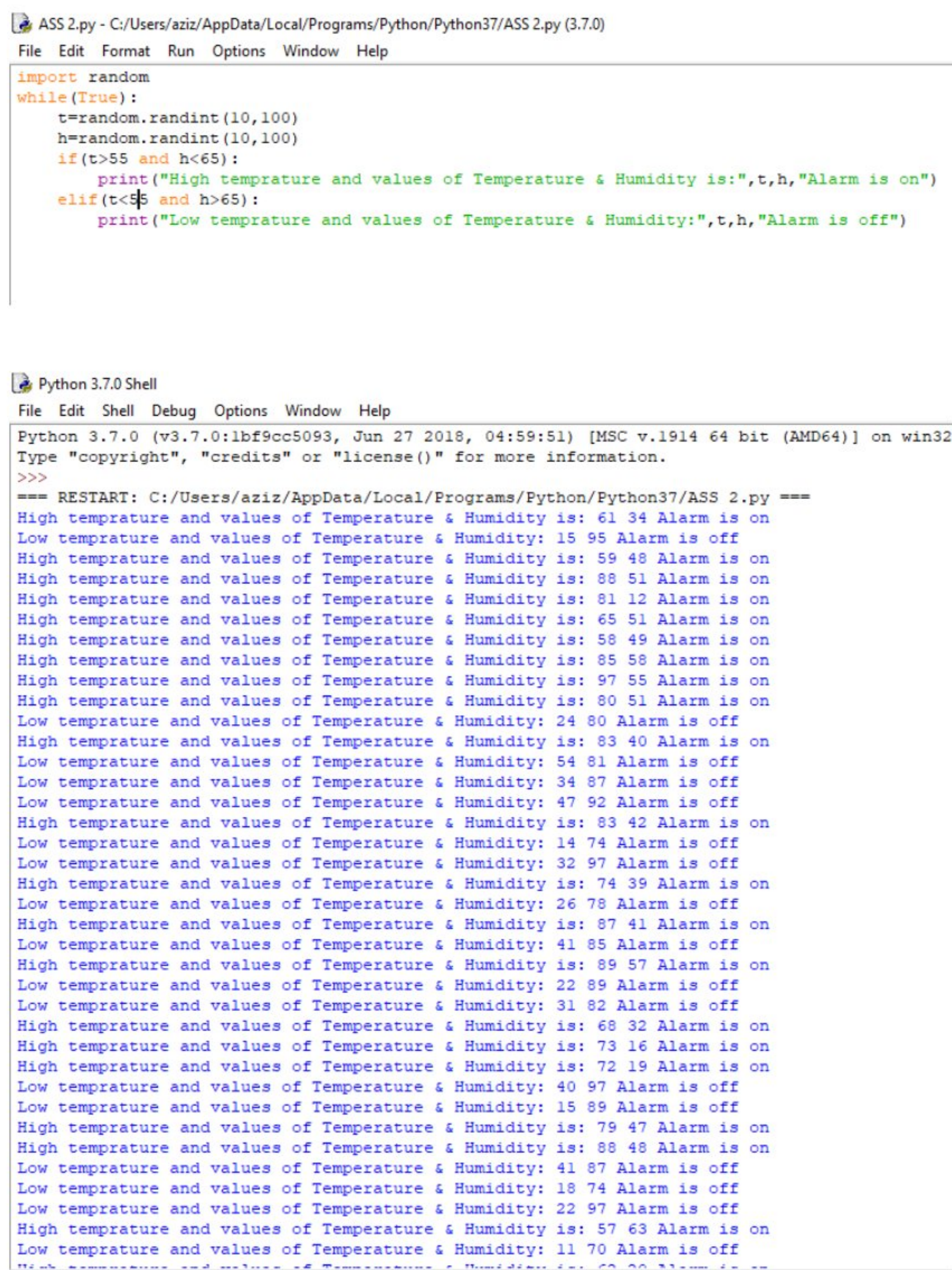


PROGRAM:

```
import random
while(True):
    t=random.randint(10,100)
    h=random.randint(10,100)
    if(t>55 and h<65):
        print("High temprature and values of Temperature & Humidity
is:",t,h,"Alarm is on")
    elif(t<55 and h>65):
        print("Low temprature and values of Temperature &
Humidity:",t,h,"Alarm is off")
```

OUTPUT:



The image shows two windows from a Windows operating system. The top window is titled "ASS 2.py - C:/Users/aziz/AppData/Local/Programs/Python/Python37/ASS 2.py (3.7.0)". It contains a Python script that imports the random module and enters a while loop. Inside the loop, it generates random temperature (t) and humidity (h) values between 10 and 100. If t is greater than 55 and h is less than 65, it prints "High temprature and values of Temperature & Humidity is:",t,h,"Alarm is on". If t is less than 55 and h is greater than 65, it prints "Low temprature and values of Temperature & Humidity:",t,h,"Alarm is off". The bottom window is titled "Python 3.7.0 Shell". It shows the output of the script, which is a series of lines indicating the generated temperature and humidity values and the resulting alarm status. The output starts with "==== RESTART: C:/Users/aziz/AppData/Local/Programs/Python/Python37/ASS 2.py ===" and continues with lines like "High temprature and values of Temperature & Humidity is: 61 34 Alarm is on", "Low temprature and values of Temperature & Humidity: 15 95 Alarm is off", etc.

```
File Edit Format Run Options Window Help
import random
while(True):
    t=random.randint(10,100)
    h=random.randint(10,100)
    if(t>55 and h<65):
        print("High temprature and values of Temperature & Humidity is:",t,h,"Alarm is on")
    elif(t<55 and h>65):
        print("Low temprature and values of Temperature & Humidity:",t,h,"Alarm is off")

Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:/Users/aziz/AppData/Local/Programs/Python/Python37/ASS 2.py ====
High temprature and values of Temperature & Humidity is: 61 34 Alarm is on
Low temprature and values of Temperature & Humidity: 15 95 Alarm is off
High temprature and values of Temperature & Humidity is: 59 48 Alarm is on
High temprature and values of Temperature & Humidity is: 88 51 Alarm is on
High temprature and values of Temperature & Humidity is: 81 12 Alarm is on
High temprature and values of Temperature & Humidity is: 65 51 Alarm is on
High temprature and values of Temperature & Humidity is: 58 49 Alarm is on
High temprature and values of Temperature & Humidity is: 85 58 Alarm is on
High temprature and values of Temperature & Humidity is: 97 55 Alarm is on
High temprature and values of Temperature & Humidity is: 80 51 Alarm is on
Low temprature and values of Temperature & Humidity: 24 80 Alarm is off
High temprature and values of Temperature & Humidity is: 83 40 Alarm is on
Low temprature and values of Temperature & Humidity: 54 81 Alarm is off
Low temprature and values of Temperature & Humidity: 34 87 Alarm is off
Low temprature and values of Temperature & Humidity: 47 92 Alarm is off
High temprature and values of Temperature & Humidity is: 83 42 Alarm is on
Low temprature and values of Temperature & Humidity: 14 74 Alarm is off
Low temprature and values of Temperature & Humidity: 32 97 Alarm is off
High temprature and values of Temperature & Humidity is: 74 39 Alarm is on
Low temprature and values of Temperature & Humidity: 26 78 Alarm is off
High temprature and values of Temperature & Humidity is: 87 41 Alarm is on
Low temprature and values of Temperature & Humidity: 41 85 Alarm is off
High temprature and values of Temperature & Humidity is: 89 57 Alarm is on
Low temprature and values of Temperature & Humidity: 22 89 Alarm is off
Low temprature and values of Temperature & Humidity: 31 82 Alarm is off
High temprature and values of Temperature & Humidity is: 68 32 Alarm is on
High temprature and values of Temperature & Humidity is: 73 16 Alarm is on
High temprature and values of Temperature & Humidity is: 72 19 Alarm is on
Low temprature and values of Temperature & Humidity: 40 97 Alarm is off
Low temprature and values of Temperature & Humidity: 15 89 Alarm is off
High temprature and values of Temperature & Humidity is: 79 47 Alarm is on
High temprature and values of Temperature & Humidity is: 88 48 Alarm is on
Low temprature and values of Temperature & Humidity: 41 87 Alarm is off
Low temprature and values of Temperature & Humidity: 18 74 Alarm is off
Low temprature and values of Temperature & Humidity: 22 97 Alarm is off
High temprature and values of Temperature & Humidity is: 57 63 Alarm is on
Low temprature and values of Temperature & Humidity: 11 70 Alarm is off
High temprature and values of Temperature & Humidity is: 60 30 Alarm is on
```