

IBM-Nallaiya Thiran Project
Assignment 1
TEMPERATURE AND HUMIDITY SENSING AND ALARM
AUTOMATION USING
PYTHON

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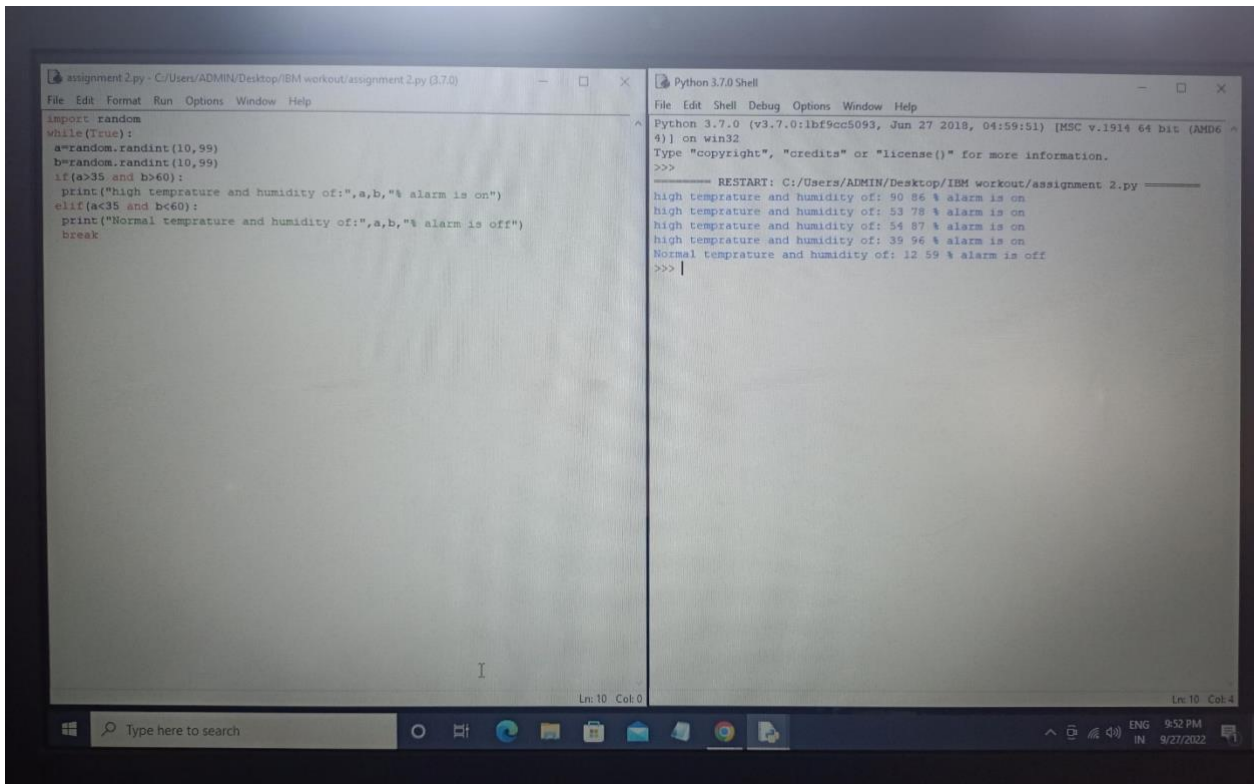
Reg no:960219106073

Batch no:B4-4M6E

Code:

```
import random
while(True):
a=random.randint(10,99)
b=random.randint(10,99) if(a>35 and b>60):
print("high temperature and humidity of:",a,b,"% alarm is on") elif(a<35 and b<60):
print("Normal Temperature and humidity of:",a,b,"%alarm is off")
break
```

Output:



The screenshot shows a Windows desktop with two windows open. The left window is a text editor titled 'assignment 2.py - C:/Users/ADMIN/Desktop/IBM workout/assignment 2.py (3.7.0)'. It contains the following Python code:

```
import random
while(True):
    a=random.randint(10,99)
    b=random.randint(10,99)
    if(a>35 and b<60):
        print("high temprature and humidity of:",a,b,"% alarm is on")
    elif(a<35 and b<60):
        print("Normal temprature and humidity of:",a,b,"% alarm is off")
        break
```

The right window is a 'Python 3.7.0 Shell' window. It displays the output of the script, which consists of five lines of text, each representing a random iteration of the loop. The output is as follows:

```
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/ADMIN/Desktop/IBM workout/assignment 2.py =====
high temprature and humidity of: 90 86 % alarm is on
high temprature and humidity of: 53 78 % alarm is on
high temprature and humidity of: 54 87 % alarm is on
high temprature and humidity of: 39 96 % alarm is on
Normal temprature and humidity of: 12 59 % alarm is off
>>> |
```

The taskbar at the bottom shows the Windows Start button, a search bar, and several application icons. The system tray on the right indicates the date and time as 9:52 PM on 9/27/2022.