

ASSIGNMENT 2

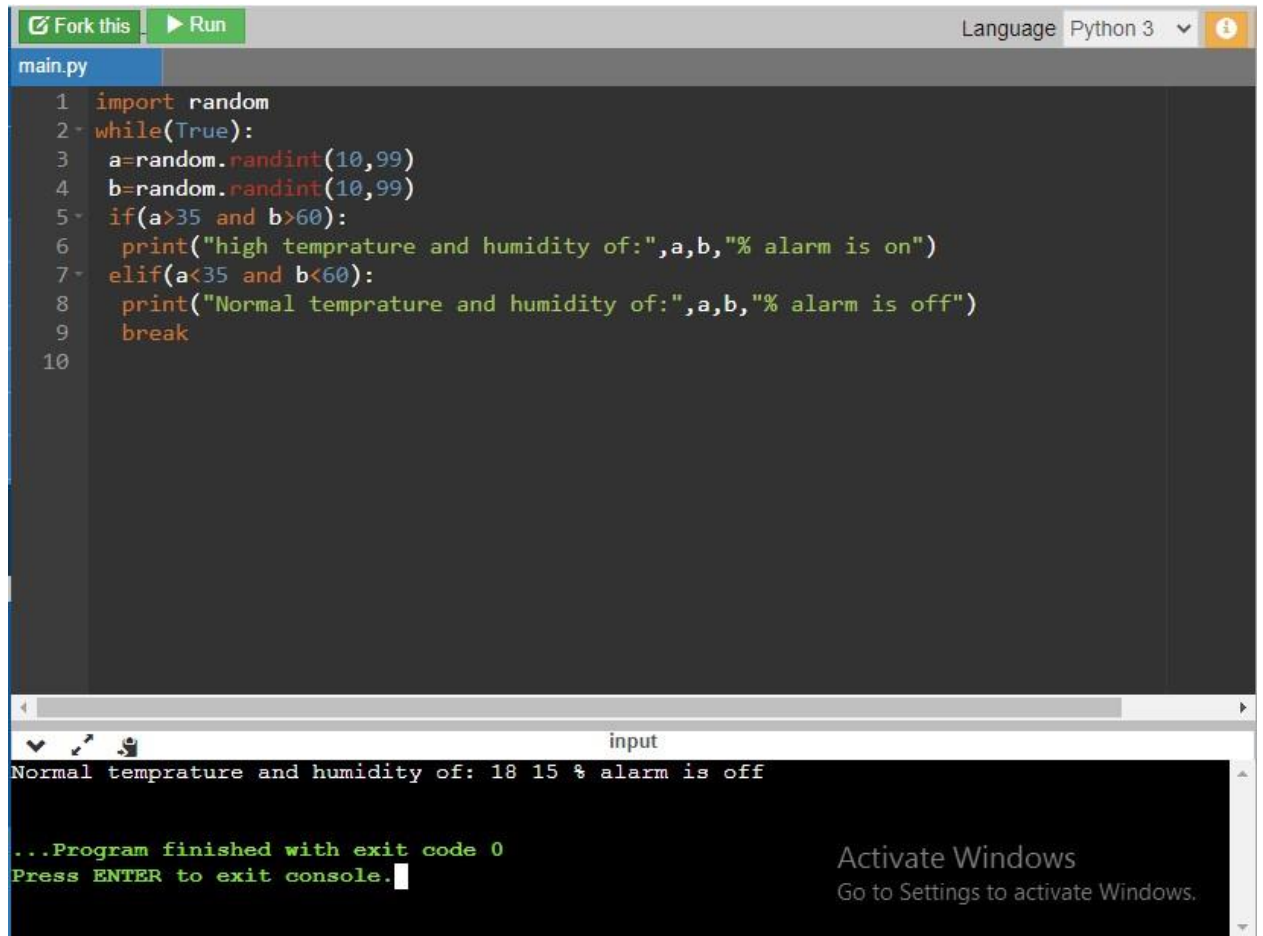
TEMPERATURE AND HUMIDITY SENSING AND ALARM AUTOMATION USING PYTHON

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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
```

OUTPUT:



The screenshot shows a Python IDE interface. At the top, there are buttons for 'Fork this' and 'Run', and a language selector set to 'Python 3'. The main editor area displays a Python script named 'main.py'. The script uses a while loop to generate random temperature and humidity values. If the temperature is above 35 and humidity is above 60, it prints 'high temprature and humidity of:' followed by the values and '% alarm is on'. Otherwise, it prints 'Normal temprature and humidity of:' followed by the values and '% alarm is off', and then breaks the loop. Below the editor, a console window shows the output of the program: 'Normal temprature and humidity of: 18 15 % alarm is off'. The console also displays the message '...Program finished with exit code 0' and 'Press ENTER to exit console.' with a cursor. An 'Activate Windows' watermark is visible in the bottom right corner of the console area.

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

input

Normal temprature and humidity of: 18 15 % alarm is off

...Program finished with exit code 0
Press ENTER to exit console.

Activate Windows
Go to Settings to activate Windows.