

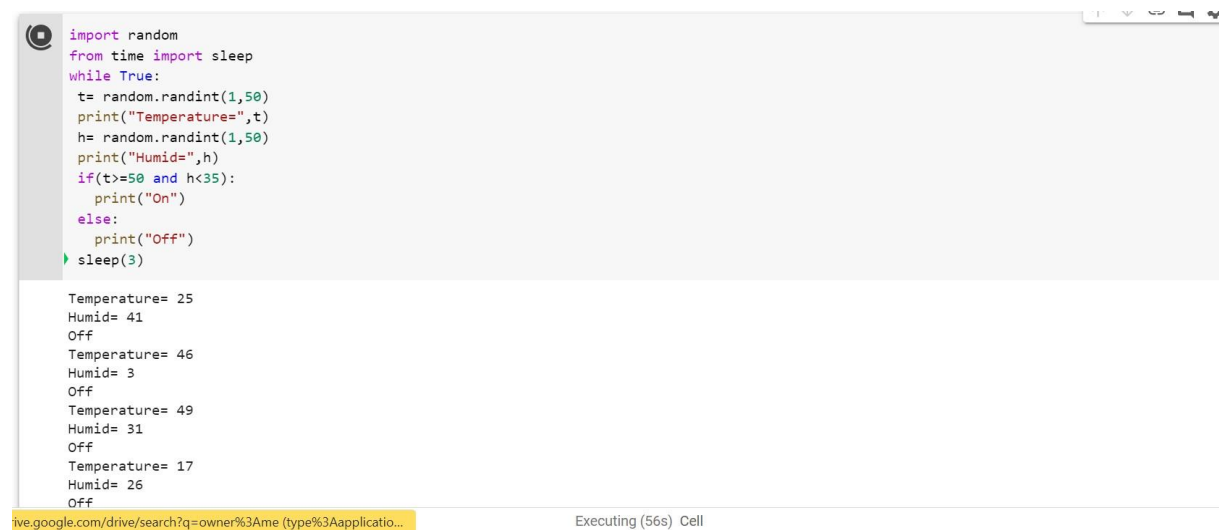
ASSIGNMENT 2

Temperature and humidity sensing and alarm automation

CODE:

```
import random
from time import sleep
while True:
    t= random.randint(1,50)
    print("Temperature=",t)
    h= random.randint(1,50)
    print("Humid=",h)
    if(t>=50 and h<35):
        print("On")
    else:
        print("Off")
    sleep(3)
```

OUTPUT:



The screenshot shows a Jupyter Notebook interface. The top part is a code editor with a Python script. The script imports the 'random' module and 'sleep' from the 'time' module. It enters an infinite loop where it generates random temperature and humidity values, prints them, checks if an alarm condition is met (temperature ≥ 50 and humidity < 35), prints 'On' or 'Off', and sleeps for 3 seconds. The bottom part of the notebook shows the output of the code, which displays the printed values and the 'Off' status for the first three iterations shown.

```
import random
from time import sleep
while True:
    t= random.randint(1,50)
    print("Temperature=",t)
    h= random.randint(1,50)
    print("Humid=",h)
    if(t>=50 and h<35):
        print("On")
    else:
        print("Off")
    sleep(3)
```

Temperature= 25
Humid= 41
Off
Temperature= 46
Humid= 3
Off
Temperature= 49
Humid= 31
Off
Temperature= 17
Humid= 26
Off

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