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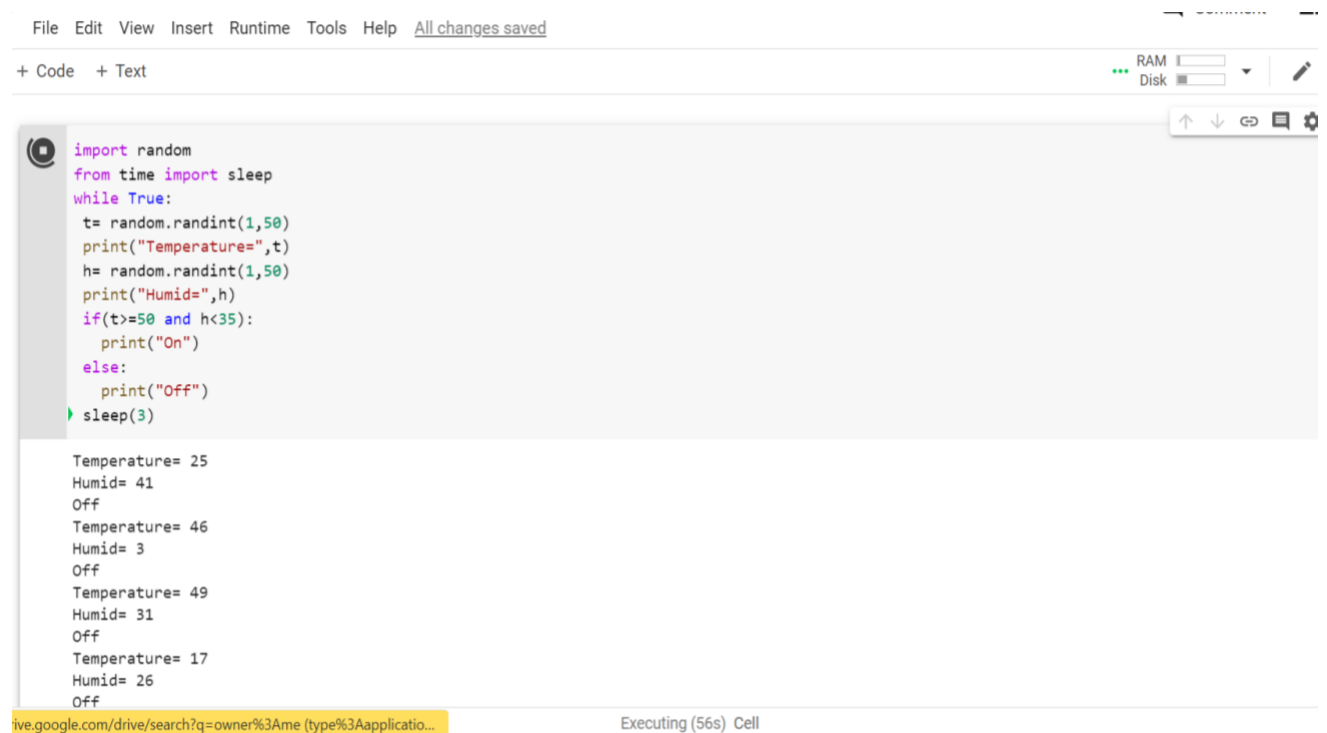
Rollno: 727719EUEC017

## 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 displays a Jupyter Notebook interface. The top menu bar includes 'File', 'Edit', 'View', 'Insert', 'Runtime', 'Tools', 'Help', and 'All changes saved'. Below the menu, there are tabs for '+ Code' and '+ Text'. On the right side, there are indicators for 'RAM' and 'Disk' usage, along with a settings icon. The main area shows a Python script being executed. The script imports 'random' and 'sleep' from 'time', and enters a 'while True' loop. Inside the loop, it generates random temperature ('t') and humidity ('h') values, prints them, and checks if 't' is greater than or equal to 50 and 'h' is less than 35. If true, it prints 'On'; otherwise, it prints 'Off'. It then sleeps for 3 seconds. The output of the script is shown below the code, displaying several iterations of temperature and humidity values and the corresponding 'On' or 'Off' status. At the bottom, there is a status bar showing the execution time as 'Executing (56s) Cell'.

```
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

ive.google.com/drive/search?q=owner%3Ame (type%3Aapplicatio... Executing (56s) Cell