

NAME:SINDHUPRIYA M

ROLL NO: 727720EUEC509

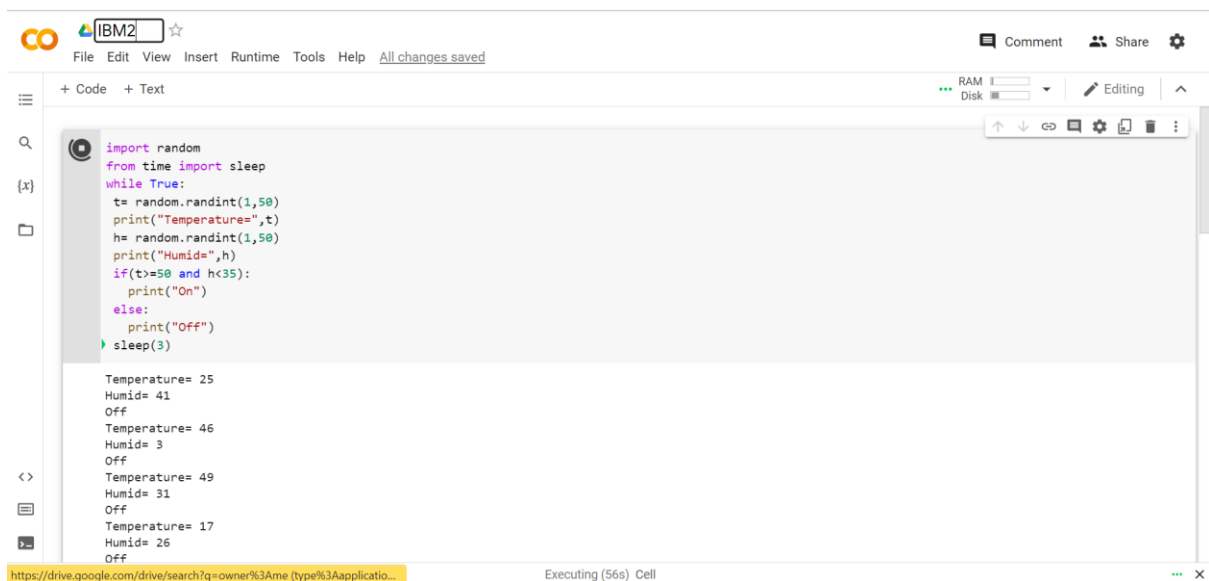
ASSIGNMENT 2

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 environment. The top bar includes the IBM Jupyter logo, a search bar, and navigation icons. The main area is divided into a code editor and an output console. The code editor contains the following Python 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)
```

The output console shows the results of the script's execution, displaying the generated temperature and humidity values and the corresponding 'On' or 'Off' status for each iteration:

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

The status bar at the bottom indicates that the code is 'Executing (56s) Cell'.