

ASSIGNMENT-2

Question:

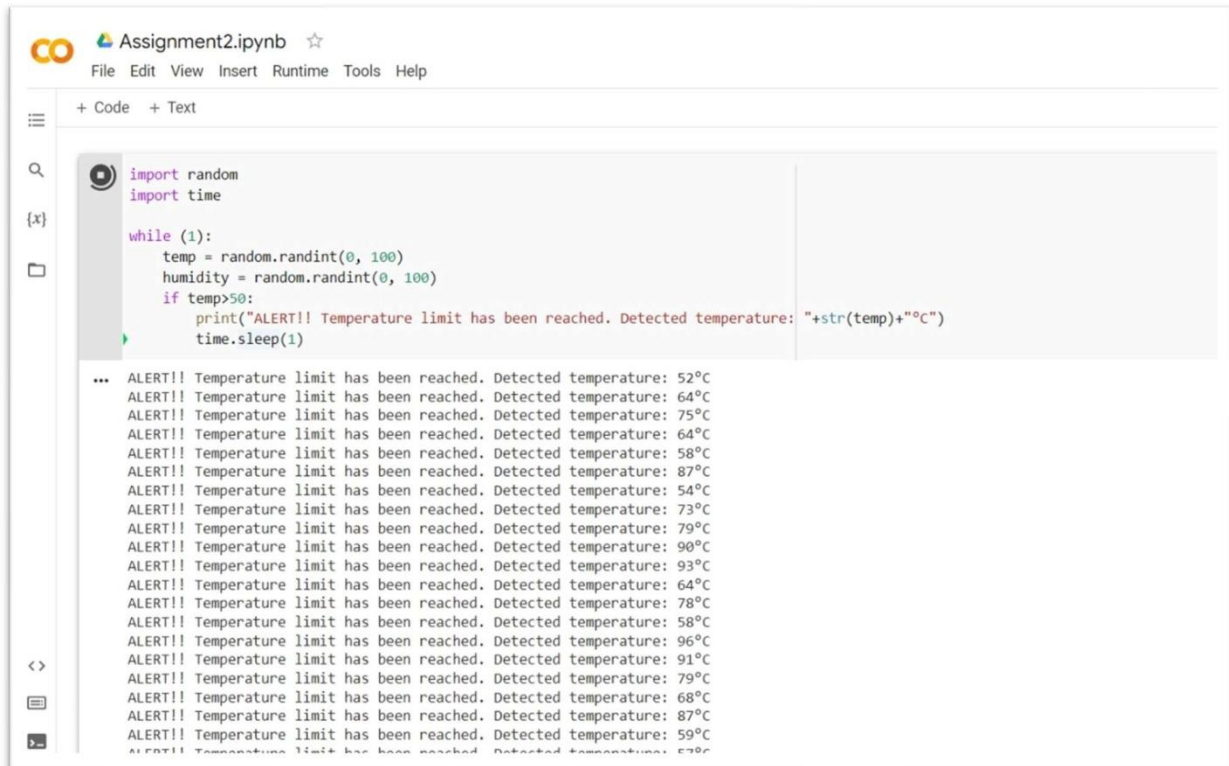
1. Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature

Source Code:

```
import random
import time

while (1):
    temp = random.randint(0, 100)
    humidity = random.randint(0, 100)
    if temp>60:
        print("ALERT!! Detected temperature: "+str(temp)+"°C")
        time.sleep(1)
```

Output Window:



The screenshot displays a Jupyter Notebook window titled "Assignment2.ipynb". The interface includes a menu bar with "File", "Edit", "View", "Insert", "Runtime", "Tools", and "Help". Below the menu bar, there are tabs for "+ Code" and "+ Text". The code editor shows a Python script that imports the "random" and "time" modules and enters a "while (1):" loop. Inside the loop, it generates random temperature and humidity values. If the temperature is greater than 50, it prints an alert message and sleeps for 1 second. The output window below the code editor shows a series of alert messages, each indicating that the temperature limit has been reached and displaying the detected temperature in degrees Celsius. The temperatures range from 52°C to 96°C.

```
import random
import time

while (1):
    temp = random.randint(0, 100)
    humidity = random.randint(0, 100)
    if temp>50:
        print("ALERT!! Temperature limit has been reached. Detected temperature: "+str(temp)+"°C")
        time.sleep(1)
```

... ALERT!! Temperature limit has been reached. Detected temperature: 52°C
ALERT!! Temperature limit has been reached. Detected temperature: 64°C
ALERT!! Temperature limit has been reached. Detected temperature: 75°C
ALERT!! Temperature limit has been reached. Detected temperature: 64°C
ALERT!! Temperature limit has been reached. Detected temperature: 58°C
ALERT!! Temperature limit has been reached. Detected temperature: 87°C
ALERT!! Temperature limit has been reached. Detected temperature: 54°C
ALERT!! Temperature limit has been reached. Detected temperature: 73°C
ALERT!! Temperature limit has been reached. Detected temperature: 79°C
ALERT!! Temperature limit has been reached. Detected temperature: 90°C
ALERT!! Temperature limit has been reached. Detected temperature: 93°C
ALERT!! Temperature limit has been reached. Detected temperature: 64°C
ALERT!! Temperature limit has been reached. Detected temperature: 78°C
ALERT!! Temperature limit has been reached. Detected temperature: 58°C
ALERT!! Temperature limit has been reached. Detected temperature: 96°C
ALERT!! Temperature limit has been reached. Detected temperature: 91°C
ALERT!! Temperature limit has been reached. Detected temperature: 79°C
ALERT!! Temperature limit has been reached. Detected temperature: 68°C
ALERT!! Temperature limit has been reached. Detected temperature: 87°C
ALERT!! Temperature limit has been reached. Detected temperature: 59°C
ALERT!! Temperature limit has been reached. Detected temperature: 57°C