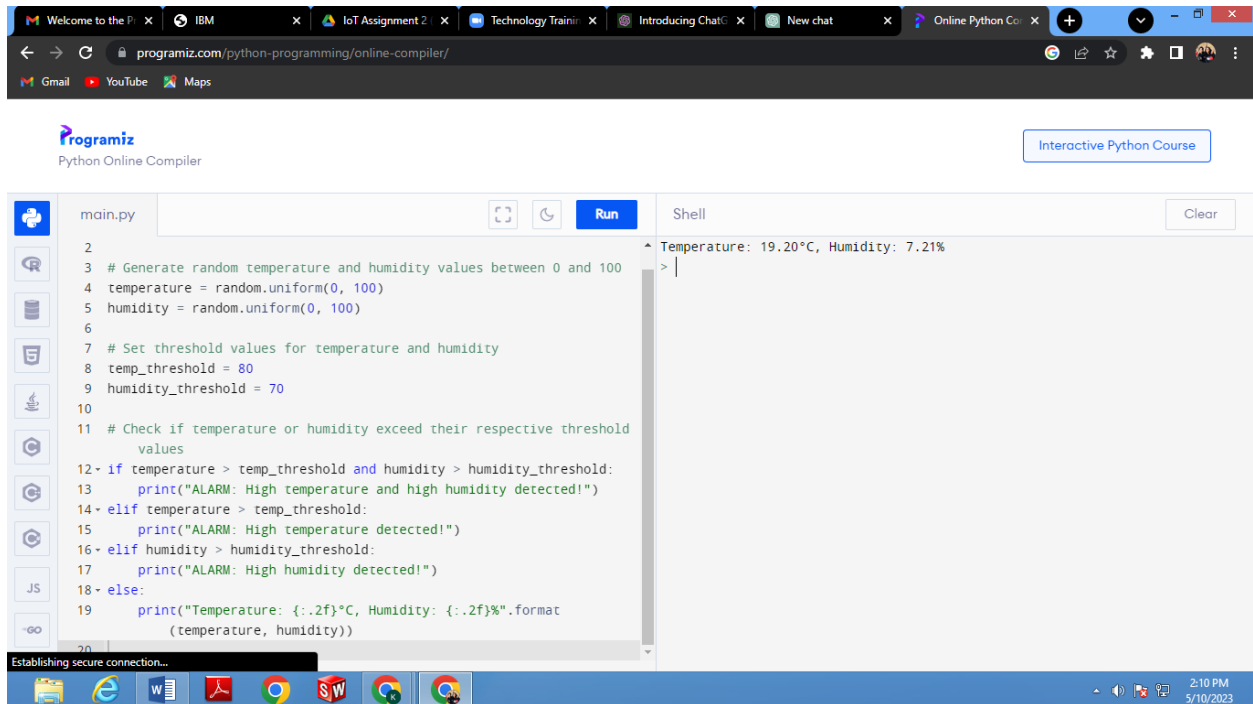


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SCREENSHOT :



The screenshot shows a web browser window with multiple tabs. The active tab is 'programiz.com/python-programming/online-compiler/'. The browser's address bar shows the URL. Below the browser window, the Programiz Python Online Compiler interface is visible. It includes a 'Run' button and a 'Shell' output area. The code in the editor is as follows:

```
main.py
2
3 # Generate random temperature and humidity values between 0 and 100
4 temperature = random.uniform(0, 100)
5 humidity = random.uniform(0, 100)
6
7 # Set threshold values for temperature and humidity
8 temp_threshold = 80
9 humidity_threshold = 70
10
11 # Check if temperature or humidity exceed their respective threshold
    values
12- if temperature > temp_threshold and humidity > humidity_threshold:
13     print("ALARM: High temperature and high humidity detected!")
14- elif temperature > temp_threshold:
15     print("ALARM: High temperature detected!")
16- elif humidity > humidity_threshold:
17     print("ALARM: High humidity detected!")
18- else:
19     print("Temperature: {:.2f}*C, Humidity: {:.2f}%".format
        (temperature, humidity))
```

The Shell output area shows the result of the program execution: "Temperature: 19.20°C, Humidity: 7.21%".

PROGRAM:

```
import random
```

```
# Generate random temperature and humidity values between 0 and 100
```

```
temperature = random.uniform(0, 100)
```

```
humidity = random.uniform(0, 100)
```

```
# Set threshold values for temperature and humidity
```

```
temp_threshold = 80
```

```
humidity_threshold = 70
```

```
# Check if temperature or humidity exceed their respective threshold values
if temperature > temp_threshold and humidity > humidity_threshold:
    print("ALARM: High temperature and high humidity detected!")
elif temperature > temp_threshold:
    print("ALARM: High temperature detected!")
elif humidity > humidity_threshold:
    print("ALARM: High humidity detected!")
else:
    print("Temperature: {:.2f}°C, Humidity: {:.2f}%".format(temperature, humidity))
```