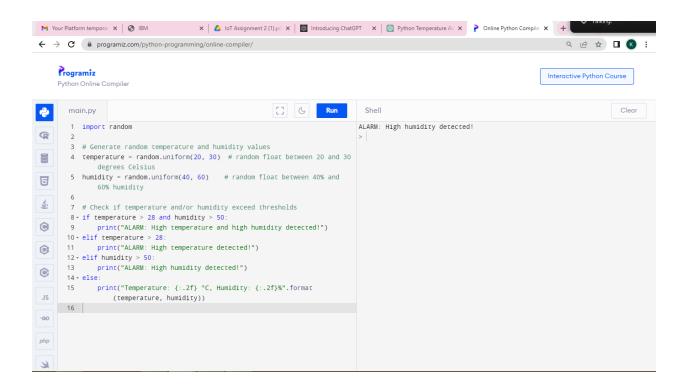KAMESHWARI M

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SCREENSHOT:

PROGRAM:

```python
import random

# Generate random temperature and humidity values
temperature = random.uniform(20, 30)  # random float between 20 and 30 degrees Celsius
humidity = random.uniform(40, 60)    # random float between 40% and 60% humidity

# Check if temperature and/or humidity exceed thresholds
if temperature > 28 and humidity > 50:
    print("ALARM: High temperature and high humidity detected!")
elif temperature > 28:
    print("ALARM: High temperature detected!")
```

```python
elif humidity > 50:

    print("ALARM: High humidity detected!")

else:

    print("Temperature: {:.2f} °C, Humidity: {:.2f}%".format(temperature, humidity))
```