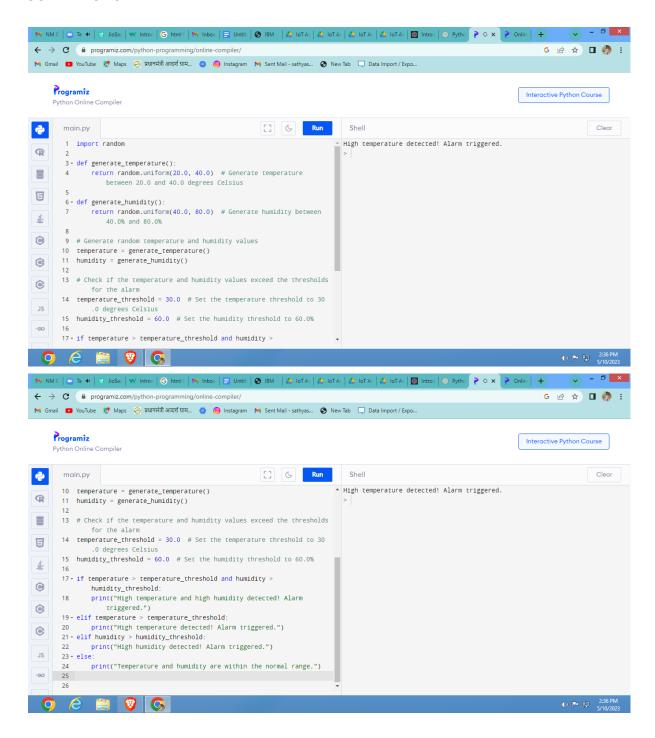
SATHYA K 732720121029

SCREEN SHORT:



PROGRAM:

import random

```
def generate_temperature():
  return random.uniform(20.0, 40.0) # Generate temperature between 20.0 and 40.0
degrees Celsius
def generate_humidity():
  return random.uniform(40.0, 80.0) # Generate humidity between 40.0% and 80.0%
# Generate random temperature and humidity values
temperature = generate_temperature()
humidity = generate humidity()
# Check if the temperature and humidity values exceed the thresholds for the alarm
temperature_threshold = 30.0 # Set the temperature threshold to 30.0 degrees Celsius
humidity_threshold = 60.0 # Set the humidity threshold to 60.0%
if temperature > temperature_threshold and humidity > humidity_threshold:
  print("High temperature and high humidity detected! Alarm triggered.")
elif temperature > temperature_threshold:
  print("High temperature detected! Alarm triggered.")
elif humidity > humidity_threshold:
  print("High humidity detected! Alarm triggered.")
else:
  print("Temperature and humidity are within the normal range.")
OUTPUT:
High temperature detected! Alarm triggered.
```