NAME: Gowtham S REG.NO:711120106029 Assignment -2

```
import random
import time

# Define thresholds for temperature and humidity
TEMP_THRESHOLD = 30  # degrees Celsius
HUMIDITY_THRESHOLD = 70  # percent

# Loop indefinitely to generate random values and check thresholds
while True:
    # Generate random temperature and humidity values
    temp = random.randint(20, 35)  # degrees Celsius
    humidity = random.randint(50, 90)  # percent

    # Check if temperature or humidity exceed thresholds and trigger alarm if they do
    if temp > TEMP_THRESHOLD:
        print(f"High temperature detected ({temp}°C)!")
        # Add code here to trigger an alarm sound
    if humidity > HUMIDITY_THRESHOLD:
        print(f"High humidity detected ({humidity}%).")
        # Add code here to trigger an alarm sound

    # Wait for a short period of time before generating new values
    time.sleep(5)  # 5 seconds
```

output:

```
High temperature detected (34°C)!
High humidity detected (76%).
High humidity detected (72%).
High humidity detected (86%).
High humidity detected (79%).
High humidity detected (84%)
```