

Assignment 2

★ Build Python code, Generate Temperature and Humidity values (Use Random function to generate values) and write a condition to detect an alarm in case of high temperature and high Humidity

Code :

main.py

```
import random
```

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

```
TEMP_THRESHOLD = 85 # degrees Celsius
```

```
HUMIDITY_THRESHOLD = 45 # percent
```

```
#Generate a random temperature value between 0 and 100 degrees Celsius
```

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

```
print("Temperature:", temperature)
```

```
# Generate a random humidity value between 0 and 100 percent
```

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

```
print("Humidity:", humidity)
```

```
# Check if either temperature or humidity is above the threshold
```

```
if temperature > TEMP_THRESHOLD:
```

```
    print("High temperature alarm!")
```

```
if humidity > HUMIDITY_THRESHOLD
```

```
print("High humidity alarm!") )
```

