**ASSIGNMENT 2**

**PROBLEM**

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.

**SOLUTION**

**PROGRAM**

import random

import time

# Set the threshold values for temperature and humidity

temp\_threshold = 80

hum\_threshold = 60

while True:

# Generate random temperature and humidity values

temperature = random(0, 100)

humidity = random(0, 100)

# Check if the temperature or humidity is above the threshold

if temperature > temp\_threshold or humidity > hum\_threshold:

print("ALARM! Temperature or Humidity is too high! Temperature: {:.2f} °C, Humidity: {:.2f}

%".format(temperature, humidity))

else:

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

# Wait for a few seconds before generating the next set of values

time(5)

OUTPUT

