## **ASSIGNMENT 2**

Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

## **PROGRAM**:

```
import random
while(True):
  a=random.randint(10,99)
  b=random.randint(10,99)
  if(a>35 and b>60):
    print("High temperature and humidity
of:",a,"%",b,"% is sensed.","\n Alarm is on")
  elif(a<35 and b<60):
    print("Normal temperature and humidity
of:",a,"%",b,"% is sensed","\n Alarm is off")
    break
import requests
# paste your api key here
api_key =
"4256b3de394a56a86ee35e43af6f5c2e"
```

```
# getting city name from user
city = input("Enter city name: ")
111111
we appending the city valirable and api key
variable to complete the url. for example city
name is Mumbai then url looks like
https://api.openweathermap.org/data/2.5/weath
er?q=Mumbai&units=metric&APPID=4256b3de39
4a56a86ee35e43af6f5c2e
data = requests.get(
f"https://api.openweathermap.org/data/2.5/weat
her?q={city}&units=metric&APPID={api key}"
# uncomment the following line and run it so you
can get the data in json format
# print(data.json())
# getting the data
print(f"Location: {data.json().get('name')},
{data.json().get('sys').get('country')}")
```

```
print(f"Temperature:
{data.json().get('main')['temp']}°C")
print(f"Weather:
{data.json().get('weather')[0].get('main')}")
print(
    f"Min/Max Temperature:
{data.json().get('main')['temp_min']}°C/{data.json().get('main')['temp_max']}°C"
)
print(f"Humidity:
{data.json().get('main')['humidity']}%")
print(f"Wind: {data.json().get('wind')['speed']}
km/h")
```

## OUTPUT:

```
Normal temperature and humidity of: 13 % 41 % Is sensed Alarm is off Enter city name: vellore Location: Vellore, IN Temperature: 33.87°C Weather: Clouds Min/Max Temperature: 33.87°C/33.87°C Humidity: 41% Wind: 7.23 km/h
```

## **RESULT:**

