## **ASSIGNMENT 2**

## **Program:**

```
#assignment 2
"Build a python code,
assume you 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"
a = int(input("enter temperature : "))
b = int(input("enter humidity:"))
#max function
def max(a,b):
  max_temp = 100;
  max humid = 80;
  max temp threshold = 90;
  max humid threshold = 70;
  #temp
 if(a>max temp):
    print("High temperature")
  elif(a==max temp threshold):
    print("temperature at max threshold")
    print("Temp: All good")
  #humid
  if(b>max humid):
    print("Hazard detected,high humid")
  elif(b==max humid threshold):
    print("humidity at max threshold")
 else:
    print("Humidity: All good")
#min function
def min(a,b):
  min temp = 50;
  min humid = 30;
  min temp threshold = 55;
  min humid threshold = 35;
```

```
#temp
  if(a<min_temp):
    print("Low temperature")
  elif(a==min_temp_threshold):
    print("temperature at min threshold")
  else:
    print("Temp: All good")
  #humid
  if(b<min_humid):</pre>
    print("Low humidity")
  elif(b==min_humid_threshold):
    print("humidity at min threshold")
  else:
    print("Humidity: All good")
for i in range(0,9):
  print("Temperature: ",a,"and Humidity:",b)
  print("\n")
  print("Checking maximum value: ")
  max(a,b)
  print("Checking mininum value: ")
  min(a,b)
  print("\n")
  print("\n")
  a += 40
  b += 50
  Output:
enter temperature: 90
enter humidity: 70
Temperature: 90 and Humidity: 70
Checking maximum value:
temperature at max threshold
humidity at max threshold
Checking mininum value:
Temp: All good
Humidity: All good
```

Temperature: 130 and Humidity: 120

Checking maximum value:

High temperature

Hazard detected, high humid

Checking mininum value:

Temp: All good Humidity: All good

Temperature: 170 and Humidity: 170

Checking maximum value:

High temperature

Hazard detected, high humid

Checking mininum value:

Temp: All good Humidity: All good

Temperature: 210 and Humidity: 220

Checking maximum value:

High temperature

Hazard detected, high humid

Checking mininum value:

Temp: All good Humidity: All good

Temperature: 250 and Humidity: 270

Checking maximum value:

High temperature

Hazard detected, high humid

Checking mininum value:

Temp: All good Humidity: All good

Temperature: 290 and Humidity: 320

Checking maximum value: High temperature Hazard detected,high humid Checking mininum value:

Temp: All good Humidity: All good

Temperature: 330 and Humidity: 370

Checking maximum value:
High temperature
Hazard detected,high humid
Checking mininum value:

Temp: All good Humidity: All good

Temperature: 370 and Humidity: 420

Checking maximum value:
High temperature
Hazard detected,high humid
Checking mininum value:

Temp: All good Humidity: All good

Temperature: 410 and Humidity: 470

Checking maximum value:

High temperature Hazard detected,high humid Checking mininum value:

Temp: All good Humidity: All good

