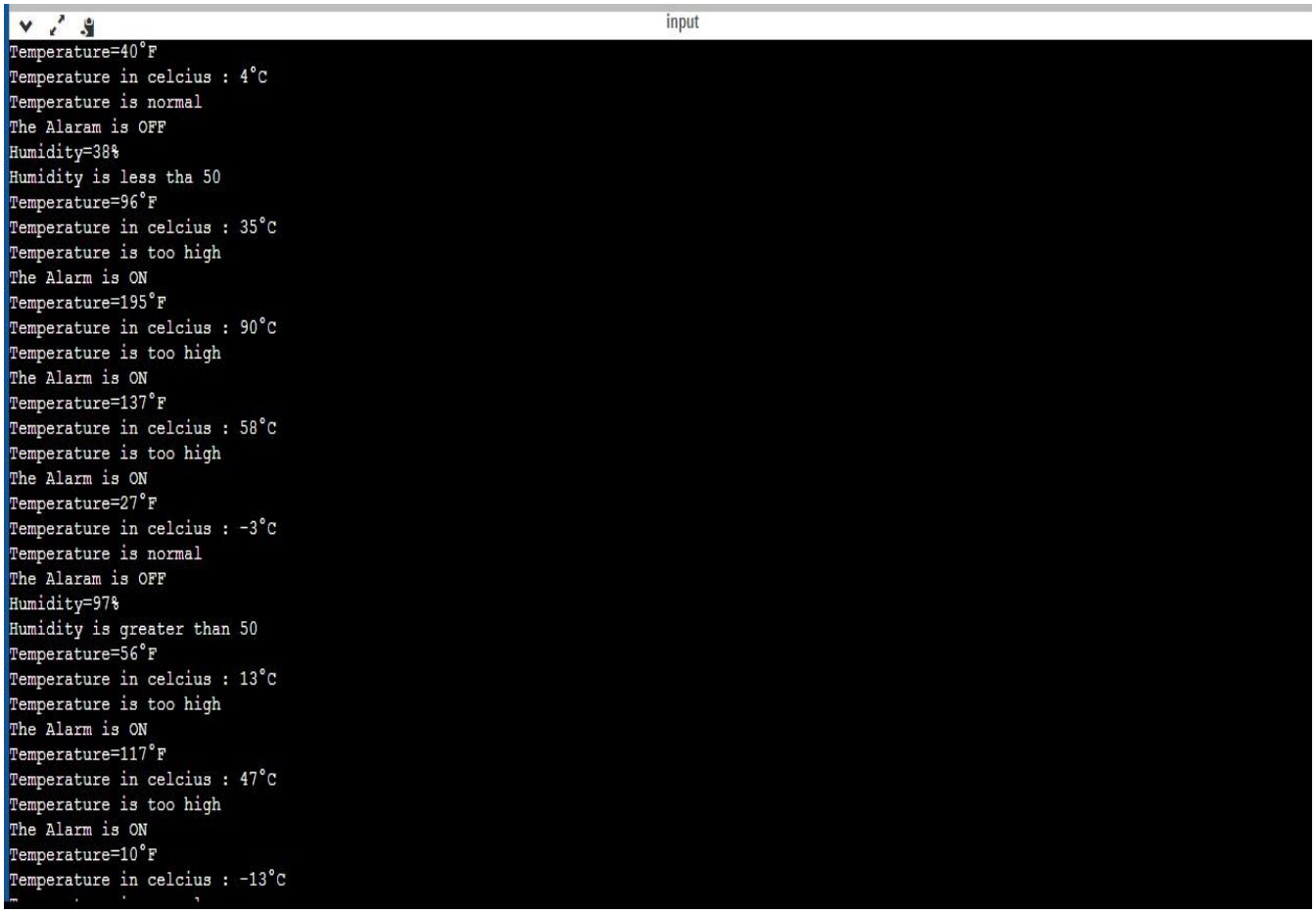
ASSIGNMENT – 2

Build a python code, Assume u get temperature and humidity values and write a condition to continuously detect alarm in case of high temperature.

```
import random

import time while(1):

temperature=random.randint(0,200) #TO GENERATE RANDOM NUMBER FOR TEMPERATURE

print("Temperature="+str(temperature)+"°F") print("Temperature in celcius :

"+str(((temperature-32)*5)//9)+"°C") if(temperature>50): #IF TEMPERATURE GOES HIGH

THEN ALARM IS ON print("Temperature is too high") print("The Alarm is ON") else:

#TEMPERATURE VALUE GOES NORMAL THEN ALARM IS OFF print("Temperature is normal")

print("The Alaram is OFF")


humidity=random.randint(0,100)  #TO GENERATE RANDOM NUMER FOR HUMIDITY

print("Humidity="+str(humidity)+"%")


if(humidity<50):

print("Humidity is less tha 50") else:

print("Humidity is greater than 50")


time.sleep(2)
```

output :


input
Temperature=40°F
Temperature in celcius : 4°C
Temperature is normal
The Alaram is OFF
Humidity=38%
Humidity is less tha 50
Temperature=96°F
Temperature in celcius : 35°C
Temperature is too high
The Alarm is ON
Temperature=195°F
Temperature in celcius : 90°C
Temperature is too high
The Alarm is ON
Temperature=137°F
Temperature in celcius : 58°C
Temperature is too high
The Alarm is ON
Temperature=27°F
Temperature in celcius : -3°C
Temperature is normal
The Alaram is OFF
Humidity=97%
Humidity is greater than 50
Temperature=56°F
Temperature in celcius : 13°C
Temperature is too high
The Alarm is ON
Temperature=117°F
Temperature in celcius : 47°C
Temperature is too high
The Alarm is ON
Temperature=10°F
Temperature in celcius : -13°C