ASSIGNMNET – 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.

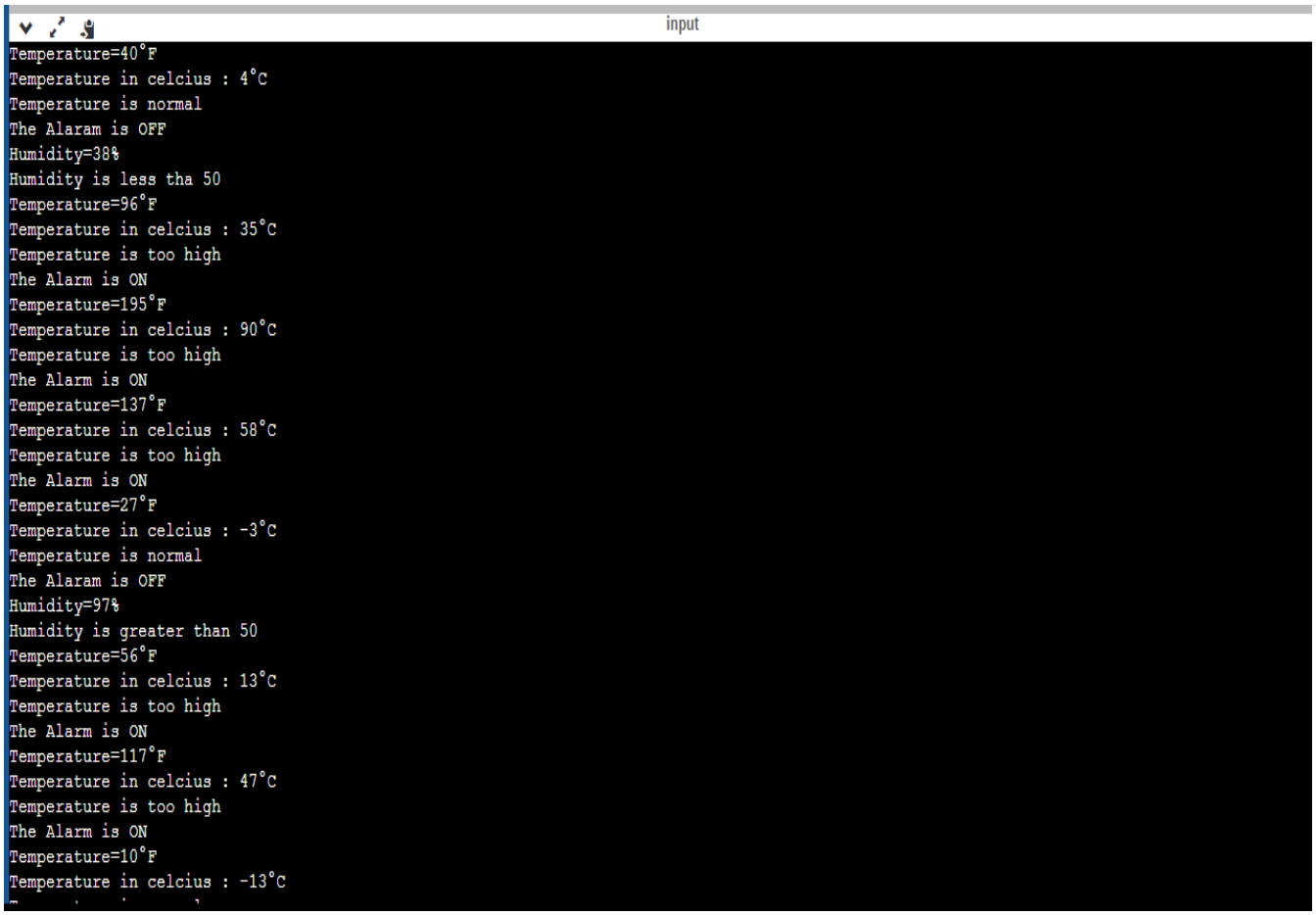
```
import random
import time
while(1):
temperature=random.randint(0,200) #TO GENERATE RANDOM NUMBER FOR TEMPERATURE
print("Temperature="+str(temperature)+"°F")
print("Temperature in celcius : "+str(((temperature-32)*5)//9)+"°C")
if(temperature>50): #IF TEMPERATURE GOES HIGH THEN ALARM IS ON
print("Temperature 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