

ASSIGNMENT 2

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

PROGRAM:

```
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): #TEMPERATURE GOES HIGH THEN ALARM IS ON PRINT

        print("Temperature is too high")

        print("The Alarm is ON")

    else:

        print("Temperature is normal")

        print("The Alarm is OFF")
```

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

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

```
if(humidity <50):
```

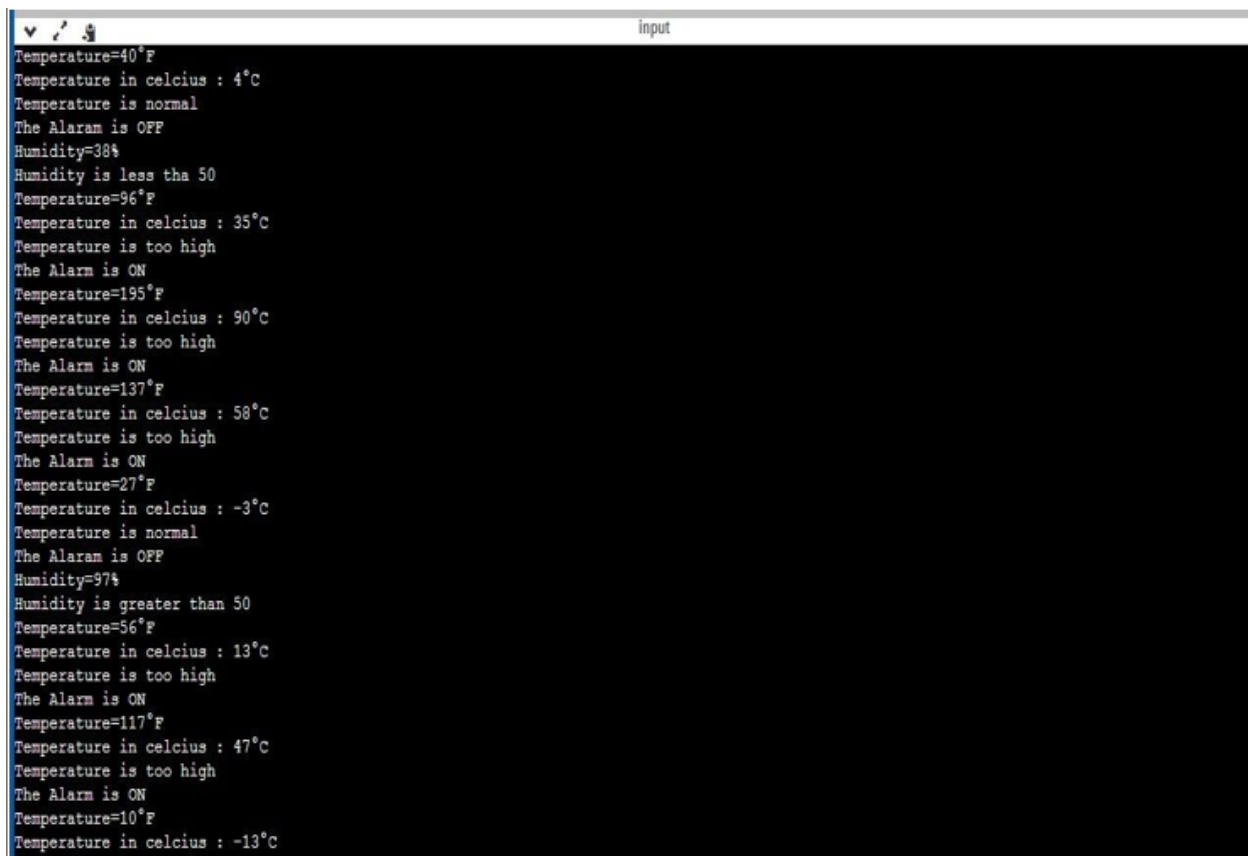
```
    print("Humidity is less than 50")
```

```
else:
```

```
    print("Humidity is greater than 50")
```

```
time.sleep(2)
```

OUTPUT:



```
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
```