ASSIGNMENT- 2

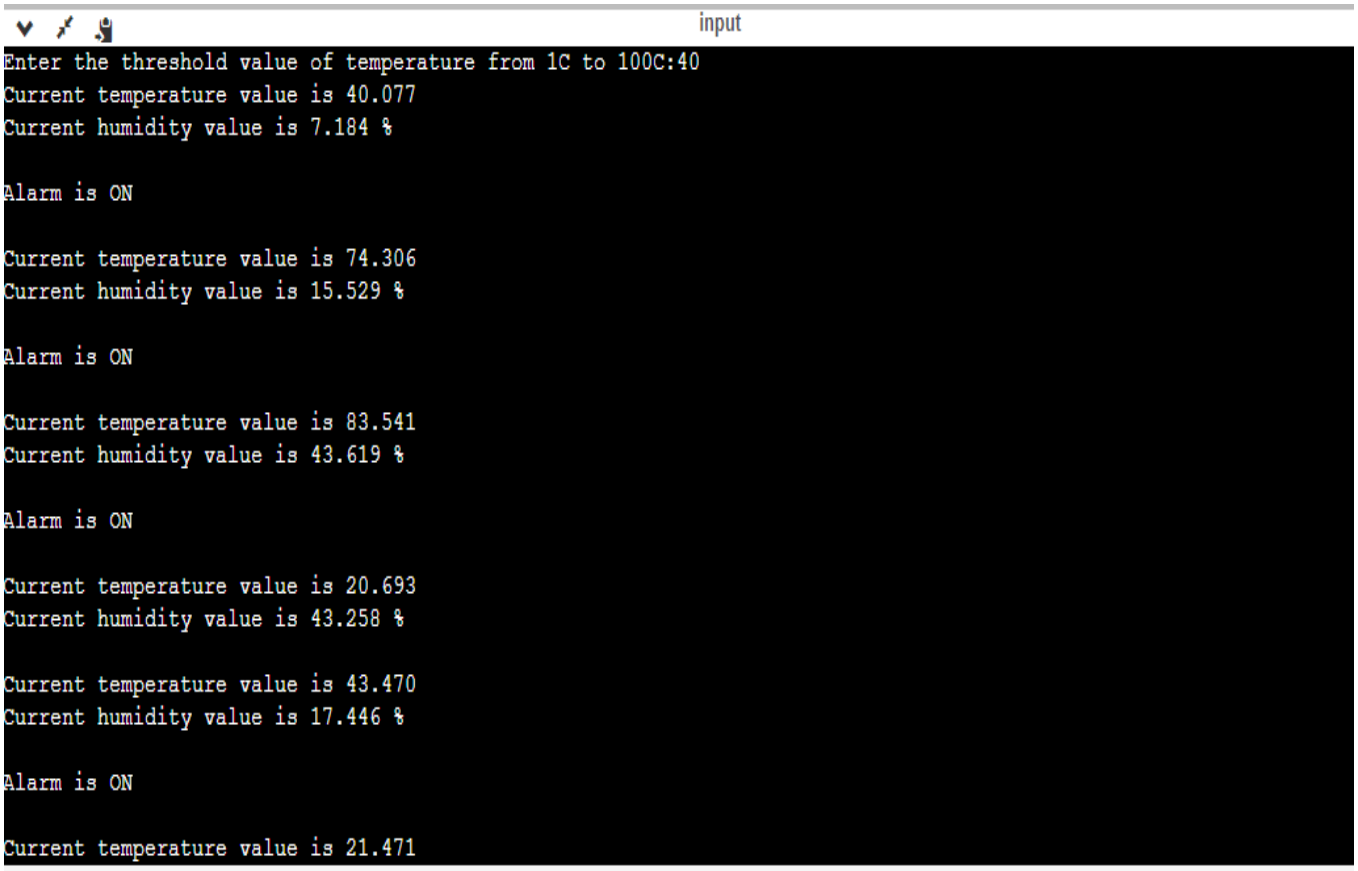
// Temp and humidity sensing. Alarm is detected during high temp

Code:

main.py

```
import random
import time
temp_limit=int(input("Enter the threshold value of temperature from 1C to 100C:"))
temp_alarm=0
#Alarm gets ON  when temperature is greater than the threshold
while(True):
    temp=random.uniform(1,100)
    humidity=random.uniform(1,50)
    print("Current temperature value is {0:.3f}".format(temp))
    print("Current humidity value is {0:.3f} %\n".format(humidity))
    time.sleep(1)
    if temp>=temp_limit:
        print("Alarm is ON\n")
        time.sleep(2)
```

Output:


input
Enter the threshold value of temperature from 1C to 100C:40
Current temperature value is 40.077
Current humidity value is 7.184 %
Alarm is ON
Current temperature value is 74.306
Current humidity value is 15.529 %
Alarm is ON
Current temperature value is 83.541
Current humidity value is 43.619 %
Alarm is ON
Current temperature value is 20.693
Current humidity value is 43.258 %
Current temperature value is 43.470
Current humidity value is 17.446 %
Alarm is ON
Current temperature value is 21.471