Assignment -2

Assignment Date	22 October 2022
Student Name	R.Sankareswari
Student Roll Number	953719106038
Maximum Marks	2 Marks

Question-2:

Python code to find temperature and humidity values and condition to continuously detect alarm in case of high temperature

```
import random
#Assigning random temperature value to a variable t in celsius
t=random.uniform(30.0,90.0)
print ("Temperature is",t)
if (t>32):
 print ("Alarm is on since the temperature is above 32 celcius")
else:
 print ("Alarm is off since the temperature is below 32 celcius")
#Assigning random humidity value to a variable h in percentage
h=random.uniform(50,100)
print ("Humidity is",h)
if (h>65):
 print ("Alarm is on since the humidity is above 65%")
else:
 print ("Alarm is off since the humidity is below 65%")
```

Output

```
Python 3.8.10 (tags/v3.8.10:3d8993a, May  3 2021, 11:48:03) [MSC v.1928 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 7.34.0 -- An enhanced Interactive Python.

In [1]: runfile('C:/Users/Monika/.spyder-py3/untitled0.py', wdir='C:/Users/Monika/.spyder-py3')
Temperature is 41.53286339213715
Alarm is on since the temperature is above 32 celcius
Humidity is 53.26620892448482
Alarm is off since the humidity is below 65%

In [2]: runfile('C:/Users/Monika/.spyder-py3/untitled0.py', wdir='C:/Users/Monika/.spyder-py3')
Temperature is 61.984717921713674
Alarm is on since the temperature is above 32 celcius
Humidity is 96.12449801575228
Alarm is on since the humidity is above 65%

In [3]: runfile('C:/Users/Monika/.spyder-py3/untitled0.py', wdir='C:/Users/Monika/.spyder-py3')
Temperature is 31.409908178299034
Alarm is off since the temperature is below 32 celcius
Humidity is 71.01307738875653
Alarm is on since the humidity is above 65%
```