IBM Nalaiyathiran
Assignment-2

Aim:

   To Build a python code, assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect the alarm in case of high temperature.

Source Code:

```python
import time,random
while True:
 current_temperature = random.randint(0,40)
 current_humidity = random.randint(0,100)

 print("Current temperature is {}".format(current_temperature))
 print("Current humidity is {}".format(current_humidity))

 if current_temperature > 30 :
      print("The temperature is high")
 elif current_temperature > 15:
      print("The temperature is normal")
 else:
      print("The temperature is low")

 if current_humidity > 80 :
      print("The humidity is high")
 elif current_humidity > 15:
      print("The humidity is normal")
 else:
      print("The humidity is low")
 print()
 time.sleep(3)
```

Output:

```
C:\Users\it\Documents>python Assignment.py
Current temperature is 38
Current humidity is 4
The temperature is high
The humidity is low

Current temperature is 21
Current humidity is 15
The temperature is normal
The humidity is low

Current temperature is 24
Current humidity is 84
The temperature is normal
The humidity is high

Current temperature is 26
Current humidity is 38
The temperature is normal
The humidity is normal

Current temperature is 35
Current humidity is 28
The temperature is high
The humidity is normal

Current temperature is 36
Current humidity is 44
The temperature is high
The humidity is normal

Current temperature is 36
Current humidity is 89
The temperature is high
The humidity is high

Current temperature is 11
Current humidity is 10
The temperature is low
The humidity is low
```