

**Assignment -2**  
Python Programming

Assignment Date	26 September 2022
Student Name	Mr.R.Prem kumar
Student Roll Number	621319106070
Maximum Marks	2 Marks

**Question-1:**

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

**Solution**

:

```
import random
import time
while True:
    "a = Temperature
    b = Humidity"
    a = random.randint(25, 203)
    b = random.randint(0, 100)
    print("Temp is: "+str(a)+"°F")
    print("Temp in celsius: "+str(((a-32)*5)//9)+"°C")
    print("The Humidity is: "+str(b) + "%")
    if (a >= 100):
        print("High Temperature Alert: "+str(a)+"°F")
    time.sleep(10)
#-----#
#-----#
```

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```
import random
import time
while True:
    '''a = Temperature
    b = Humidity'''
    a = random.randint(25, 203)
    b = random.randint(0, 100)
    print("Temp is: "+str(a)+"°F")
    print("Temp in celsius: "+str(((a-32)*5)//9)+"°C")
    print("The Humidity is: "+str(b) + "%")
    if (a >= 100):
        print("High Temp Alert: "+str(a)+"°F")
    time.sleep(10)
```

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```
Temp is: 197°F
Temp in celsius: 91°
The Humidity is: 42%
High Temp Alert: 197°F
Temp is: 35°F
Temp in celsius: 1°
The Humidity is: 37%
Temp is: 80°F
Temp in celsius: 26°
The Humidity is: 58%
Temp is: 87°F
Temp in celsius: 30°
The Humidity is: 33%
Temp is: 30°F
Temp in celsius: -2°
The Humidity is: 45%
Temp is: 89°F
Temp in celsius: 31°
The Humidity is: 92%
Temp is: 87°F
Temp in celsius: 30°
The Humidity is: 84%
Temp is: 52°F
Temp in celsius: 11°
The Humidity is: 22%
Temp is: 123°F
Temp in celsius: 50°
The Humidity is: 22%
High Temp Alert: 123°F
Temp is: 185°F
Temp in celsius: 85°
The Humidity is: 20%
High Temp Alert: 185°F
Temp is: 76°F
Temp in celsius: 24°
The Humidity is: 2%
Temp is: 112°F
Temp in celsius: 44°
The Humidity is: 83%
High Temp Alert: 112°F
Temp is: 115°F
```