

Assignment -2

Python Programming

Assignment Date	25 September 2022
Student Name	Swetha S
Student Roll Number	923819106053
Maximum Marks	10 Marks

Question-1:

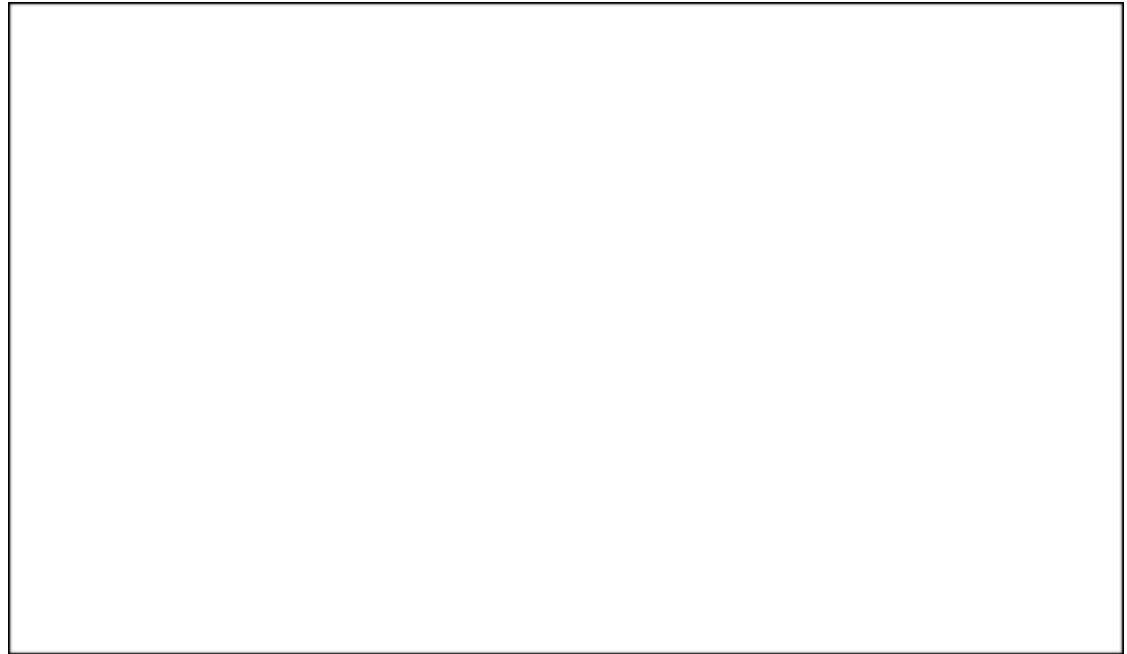
Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Solution:

```
import random
import time
while True:
    Temperature = random.randint(0,150)
    Humidity = random.randint(0,100)

    if Temperature > 100 and Humidity > 80:
        print("Temperature : " + str(Temperature))
        print("Humidity : " + str(Humidity))
        print("Temperature and Humidity is High")
    print("Alarm On !!!")
    print("")
    time.sleep(2)
    else:
        print("Temperature : " + str(Temperature))
        print("Humidity : " + str(Humidity))
```

```
print("Range is Normal")  
print("")
```



```
Command Prompt - python: assignment2.py  
Range is Normal  
Temperature : 128  
Humidity : 19  
Range is Normal  
Temperature : 23  
Humidity : 32  
Range is Normal  
Temperature : 145  
Humidity : 46  
Range is Normal  
Temperature : 60  
Humidity : 71  
Range is Normal  
Temperature : 41  
Humidity : 91  
Range is Normal  
Temperature : 58  
Humidity : 87  
Range is Normal  
Temperature : 4  
Humidity : 28  
Range is Normal  
Temperature : 105  
Humidity : 13  
Range is Normal  
Temperature : 0  
Humidity : 42  
Range is Normal  
Temperature : 146  
Humidity : 94  
Temperature and Humidity is High  
Alarm On !!!
```