## **QUESTION-1:**

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

## **SOLUTION:**

Let us consider normal temperature=40 Celsius and normal humidity=65% "" import random
Temperature=random.randin(1,100)
Humidity=random.randint(1,100) print("Temperature:")
print(Temperature)
print("Humidity:")
print(Humidity)

if((Temperature>40)&(Humid ity>65)): print("Values are HIGH!!! ") print("ALERT") elif((Temperature>40)&(Hum idity<65)): print("Tempertaure Value is HIGH!!! ") print("Check Temperature") if((Temperature<40)&(Humid ity>65)):

print("Humidity Value is
HIGH!!! ") print("Check
Humidity")

if((Temperature<40)&(Humid ity<65)): print("All Values are in limit!!!") print("SAFE ZONE")

## **OUTPUT:**

```
Shell
                                                                           Temperature:
 2 import random
3 Temperature=random.randint(1,100)
                                                                          Humidity:
4 Humidity=random.randint(1,100)
                                                                          All Values are in limit!!!
5 print("Temperature:")
 6 print(Temperature)
                                                                          SAFE ZONE
7 print("Humidity:")
 8 print(Humidity)
10 - if((Temperature>40)&(Humidity>65)):
11
      print("Values are HIGH!!! ")
       print("ALERT")
13 - if((Temperature>40)&(Humidity<65)):
14 print("Tempertaure Value is HIGH!!! ")
15
       print("Check Temperature")
16 - if((Temperature<40)&(Humidity>65)):
17
    print("Humidity Value is HIGH!!! ")
       print("Check Humidity")
19 - if((Temperature<40)&(Humidity<65)):
       print("All Values are in limit!!! ")
20
21
       print("SAFE ZONE")
```





