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

Temperature = random.sample(range(0,120), 10)

print ("Temperature Data=", Temperature)

Humidity=random.sample(range(40,90), 10)

print("Humidity Data=", Humidity)

For i in Temperature:

```
if(i>80);
{
```

print(f"{i} Exceeds Normal Temperature . Alarm Detected")

}

```
main py

1 import random
2
3 Temperature = random.sample(range(0, 120), 10)
4 print("Temperature data = ", Temperature)
5 Humidity = random.sample(range(40, 90), 10)
6 print("Humidity data = ", Humidity)
7
8 for i in Temperature:
9 if(i>80):
10 {
11 print(f"{i} Exceeds Normal temperature. Alarm Detected")
12 }
13

V / S
Temperature data = [84, 76, 82, 50, 65, 66, 44, 75, 56, 68]
113 Exceeds Normal temperature. Alarm Detected
109 Exceeds Normal temperature. Alarm Detected
100 Exceeds Normal temperature. Alarm Detected
```