



## THIAGARAJAR COLLEGE OF ENGINEERING

# **ASSIGNMENT - 2**



#### **Team Members:**

Mahalakshmi C - 19D047

• Raji Santhoshi T G - 19D070

• Laila B G - 19D043

• Durga Devi G - 19D117





 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

### Code:

111

Let us consider normal temperature=40 Celsius and normal humidity=65% '''





```
import random Temperature=random.randint(1,100)
Humidity=random.randint(1,100) print("Temperature:")
print(Temperature) print("Humidity:")
print(Humidity)
```

```
if((Temperature>40)&(Humidity>65)): print("Values are HIGH!!! ") print("ALERT") if((Temperature>40)&(Humidity<65)): print("Temperature Value is HIGH!!! ") print("Check Temperature") if((Temperature<40)&(Humidity>65)):
```





print("Humidity Value is HIGH!!! ") print("Check Humidity") if((Temperature<40)&(Humidity<65)): print("All Values are in limit!!! ") print("SAFE ZONE")

### **Output:**

```
Shell
main.py
                                                                              Temperature:
   import random
   Temperature=random.randint(1,100)
                                                                              Humidity:
    Humidity=random.randint(1,100)
                                                                              56
   print("Temperature:")
                                                                              All Values are in limit!!!
   print(Temperature)
                                                                              SAFE ZONE
    print("Humidity:")
    print(Humidity)
10 - if((Temperature>40)&(Humidity>65)):
11
        print("Values are HIGH!!! ")
12
        print("ALERT")
13 - if((Temperature>40)&(Humidity<65)):
        print("Tempertaure Value is HIGH!!! ")
14
        print("Check Temperature")
15
16 - if((Temperature<40)&(Humidity>65)):
17
        print("Humidity Value is HIGH!!! ")
18
        print("Check Humidity")
19 - if((Temperature<40)&(Humidity<65)):
20
        print("All Values are in limit!!! ")
21
        print("SAFE ZONE")
```





```
Shell
main.py
                                                                    Run
                                                                                                                                                  Clear
                                                                             Temperature:
 2 import random
                                                                             45
 3 Temperature=random.randint(1,100)
                                                                             Humidity:
    Humidity=random.randint(1,100)
                                                                             23
    print("Temperature:")
                                                                             Tempertaure Value is HIGH!!!
   print(Temperature)
                                                                             Check Temperature
    print("Humidity:")
    print(Humidity)
 9
10 - if((Temperature>40)&(Humidity>65)):
        print("Values are HIGH!!! ")
11
12
        print("ALERT")
13 - if((Temperature>40)&(Humidity<65)):
14
        print("Tempertaure Value is HIGH!!! ")
        print("Check Temperature")
15
16 + if((Temperature<40)&(Humidity>65)):
        print("Humidity Value is HIGH!!! ")
17
        print("Check Humidity")
18
19 + if((Temperature<40)&(Humidity<65)):
        print("All Values are in limit!!! ")
20
        print("SAFE ZONE")
21
22
```



TCE

```
Shell
 main.py
                                                                    Run
                                                                            Temperature:
 2 import random
 3 Temperature=random.randint(1,100)
                                                                            Humidity:
 4 Humidity=random.randint(1,100)
                                                                            75
                                                                            Humidity Value is HIGH!!!
 5 print("Temperature:")
 6 print(Temperature)
                                                                            Check Humidity
    print("Humidity:")
   print(Humidity)
10 - if((Temperature>40)&(Humidity>65)):
11
        print("Values are HIGH!!! ")
12
        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")
18
19 - if((Temperature<40)&(Humidity<65)):
        print("All Values are in limit!!! ")
20
21
        print("SAFE ZONE")
22
```





```
Shell
main.py
                                                                    Run
                                                                             Temperature:
                                                                             91
    import random
    Temperature=random.randint(1,100)
                                                                             Humidity:
    Humidity=random.randint(1,100)
                                                                             72
    print("Temperature:")
                                                                             Values are HIGH!!!
    print(Temperature)
                                                                             ALERT
    print("Humidity:")
    print(Humidity)
10 - if((Temperature>40)&(Humidity>65)):
        print("Values are HIGH!!! ")
11
12
        print("ALERT")
13 - if((Temperature>40)&(Humidity<65)):
        print("Tempertaure Value is HIGH!!! ")
14
15
        print("Check Temperature")
16 - if((Temperature<40)&(Humidity>65)):
        print("Humidity Value is HIGH!!! ")
17
        print("Check Humidity")
18
19 - if((Temperature<40)&(Humidity<65)):
20
        print("All Values are in limit!!! ")
        print("SAFE ZONE")
21
22
```