# IBM NALAIYATHIRAN

# ASSIGNMENT-2

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

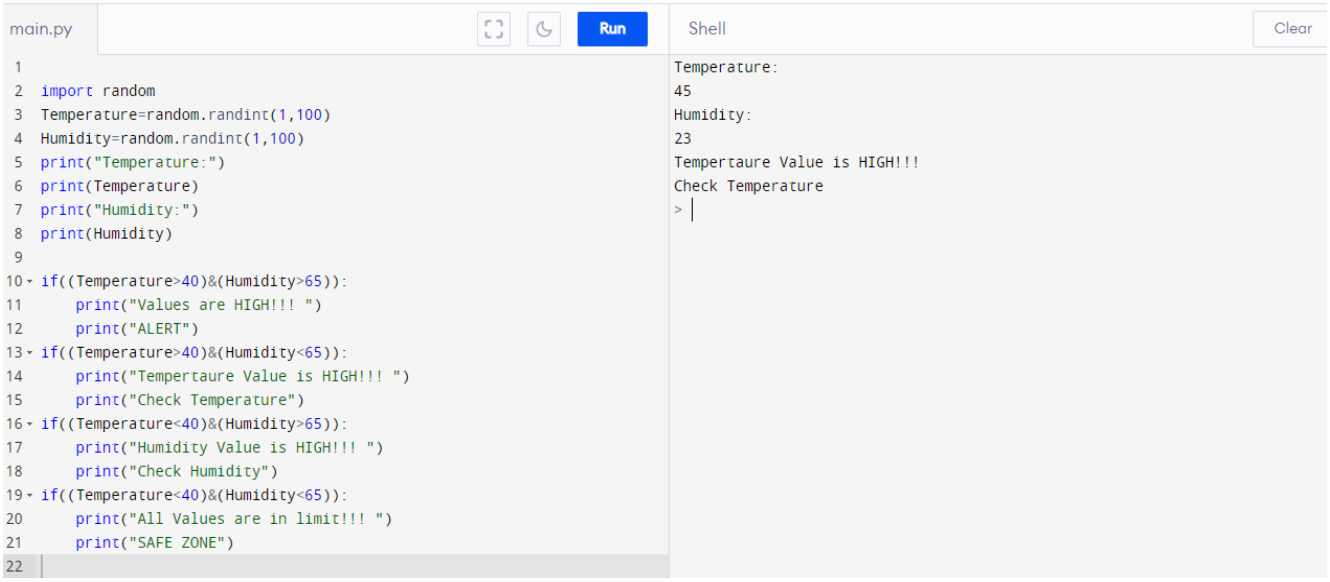
## CODE:

```
'''
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("Tempertaure 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:

main.py

Run

Shell

```
1
2  import random
3  Temperature=random.randint(1,100)
4  Humidity=random.randint(1,100)
5  print("Temperature:")
6  print(Temperature)
7  print("Humidity:")
8  print(Humidity)
9
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!!! ")
18     print("Check Humidity")
19 if((Temperature<40)&(Humidity<65)):
20     print("All Values are in limit!!! ")
21     print("SAFE ZONE")
22
```

```
Temperature:
8
Humidity:
75
Humidity Value is HIGH!!!
Check Humidity
>
```

main.py

Run

Shell

```
1
2  import random
3  Temperature=random.randint(1,100)
4  Humidity=random.randint(1,100)
5  print("Temperature:")
6  print(Temperature)
7  print("Humidity:")
8  print(Humidity)
9
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!!! ")
18     print("Check Humidity")
19 if((Temperature<40)&(Humidity<65)):
20     print("All Values are in limit!!! ")
21     print("SAFE ZONE")
22
```

```
Temperature:
91
Humidity:
72
Values are HIGH!!!
ALERT
>
>
```