ASSIGNMENT -2 **Suganthan A**
PYTHON PROGRAMMING **917719C106**

QUESTION-1:

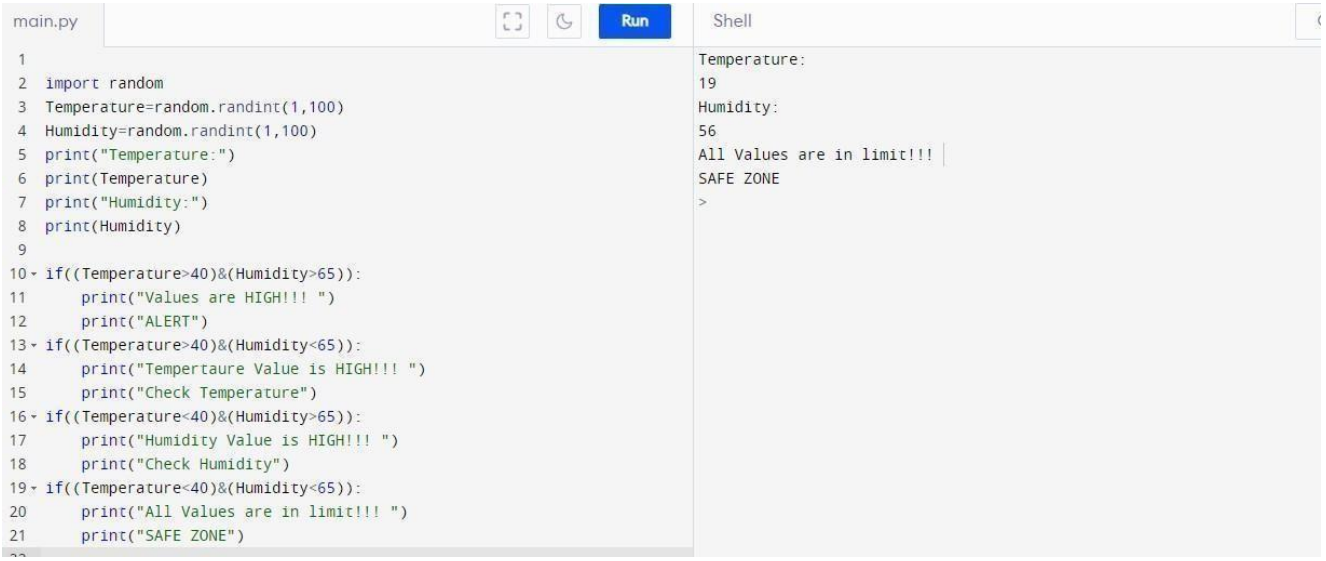
Build a python code, assume you get temperature and humidity values (generated with random functions to a variable) and write a condition to continuously detect alarm in case of high temperature.

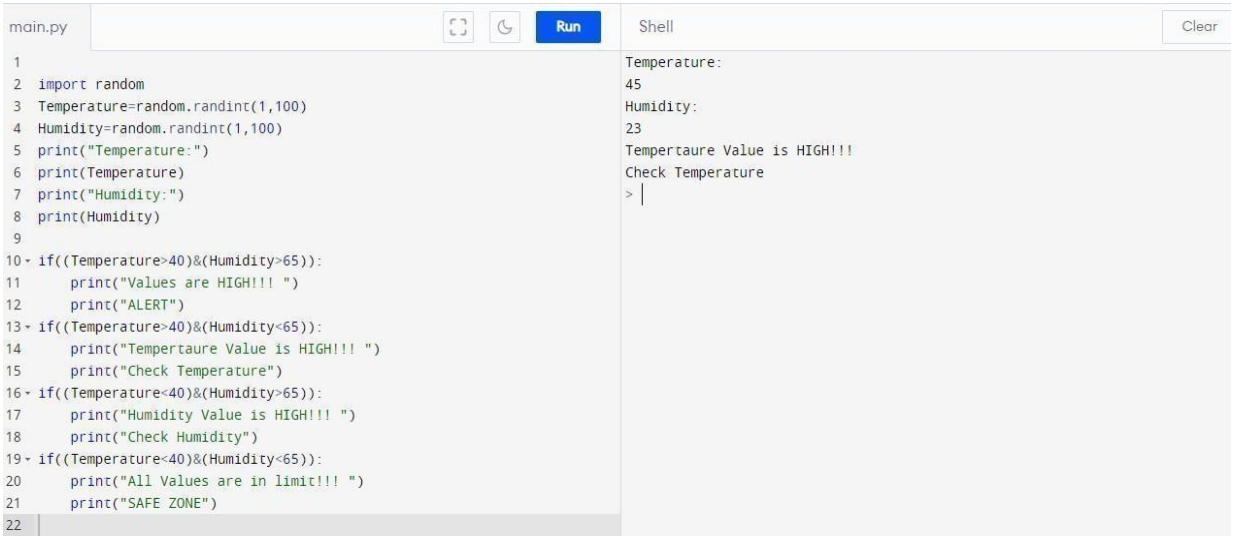
SOLUTION:

```
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:





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
>
>
```