

ASSIGNMENT 2

Generate Alarm In Case Of High Temperature Using Python Code

Aim:

To detect high temperature and low humidity condition and to generate alarm using python code.

Code:

```
import random
```

```
import time
```

```
while True:
```

```
    temp=random.randint(0,70)
```

```
    humd=random.randint(10,60)
```

```
    if(temp>50 and humd<20):
```

```
        print("Temperature=",temp,end=" ")
```

```
        print("Humidity=",humd, "#####ALARM#####")
```

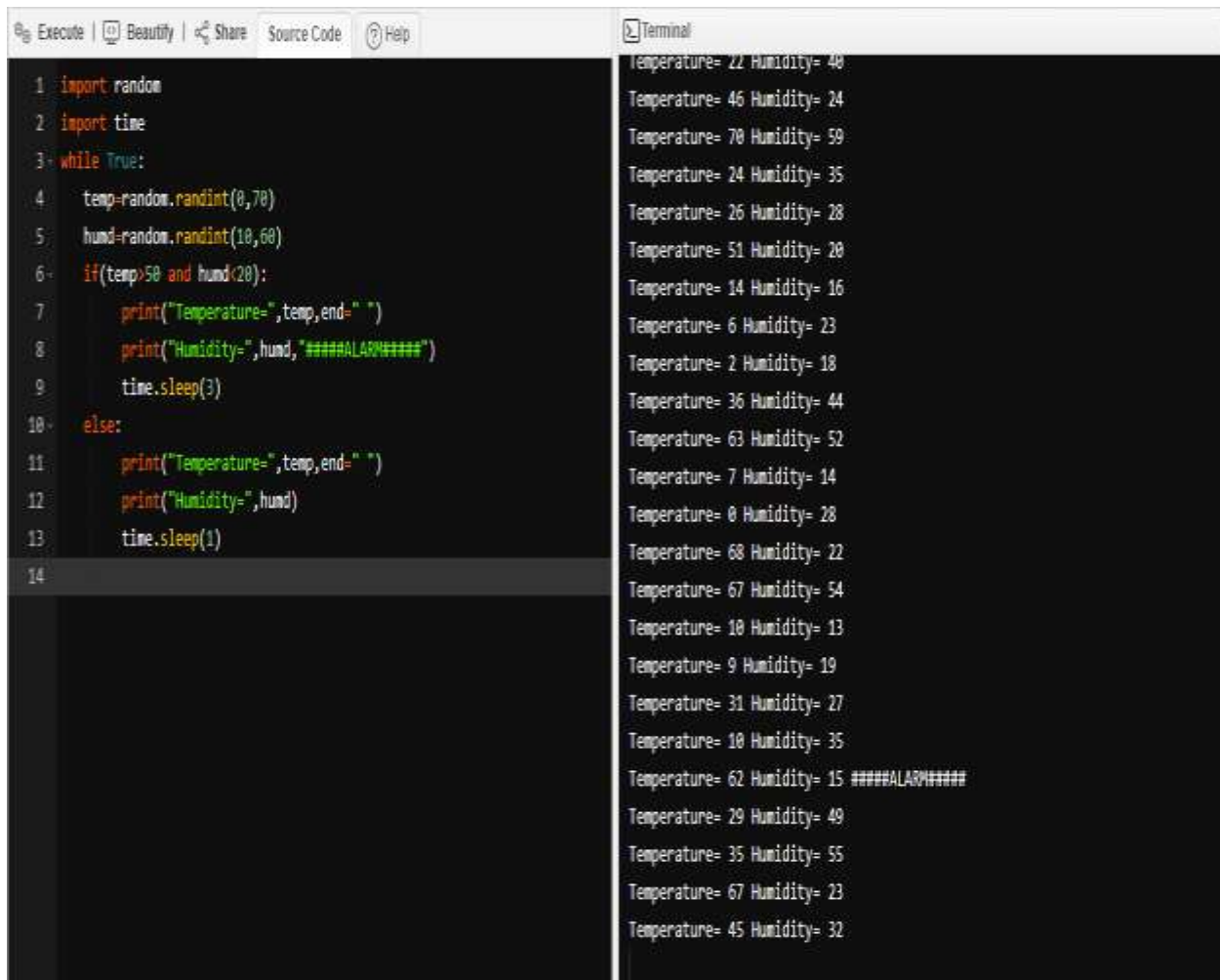
```
        time.sleep(3)
```

```
    else:
```

```
        print("Temperature=",temp,end=" ")
```

```
        print("Humidity=",humd)
```

```
        time.sleep(1)
```



```
1 import random
2 import time
3 while True:
4     temp=random.randint(0,70)
5     humd=random.randint(10,60)
6     if(temp>50 and humd<20):
7         print("Temperature=",temp,end=" ")
8         print("Humidity=",humd,"####ALARM####")
9         time.sleep(3)
10    else:
11        print("Temperature=",temp,end=" ")
12        print("Humidity=",humd)
13        time.sleep(1)
14
```

Terminal

```
Temperature= 22 Humidity= 40
Temperature= 46 Humidity= 24
Temperature= 70 Humidity= 59
Temperature= 24 Humidity= 35
Temperature= 26 Humidity= 28
Temperature= 51 Humidity= 20
Temperature= 14 Humidity= 16
Temperature= 6 Humidity= 23
Temperature= 2 Humidity= 18
Temperature= 36 Humidity= 44
Temperature= 63 Humidity= 52
Temperature= 7 Humidity= 14
Temperature= 0 Humidity= 28
Temperature= 68 Humidity= 22
Temperature= 67 Humidity= 54
Temperature= 10 Humidity= 13
Temperature= 9 Humidity= 19
Temperature= 31 Humidity= 27
Temperature= 10 Humidity= 35
Temperature= 62 Humidity= 15 ####ALARM####
Temperature= 29 Humidity= 49
Temperature= 35 Humidity= 55
Temperature= 67 Humidity= 23
Temperature= 45 Humidity= 32
```

Result:

Thus, the code for generation of alarm in case of high temperature and low humidity is successfully executed using python.