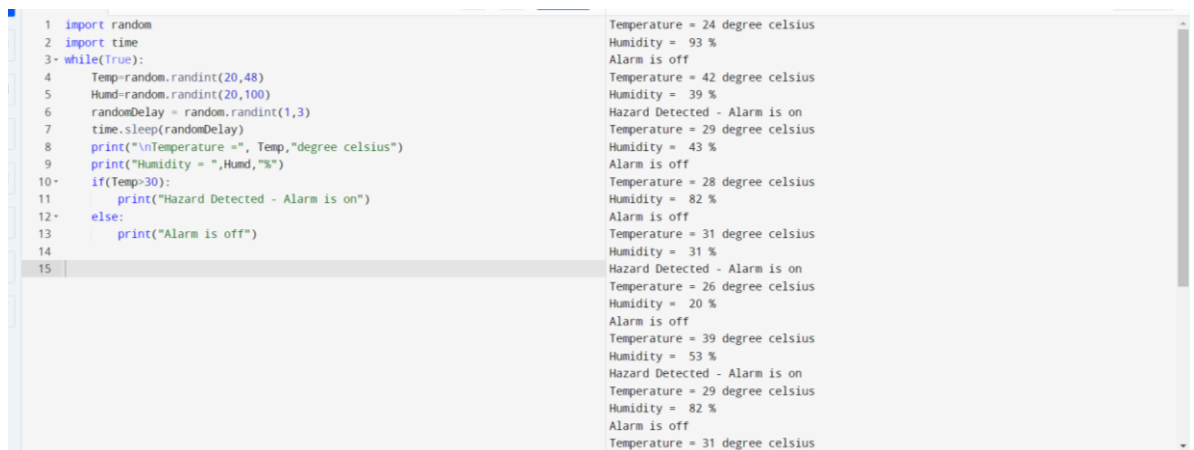


## ASSIGNMENT 2

**Build a python code, Assume you 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.**

**Code:**

```
import random
import time
while(True):
    Temp=random.randint(20,48)
    Humd=random.randint(20,100)
    randomDelay = random.randint(1,3)
    time.sleep(randomDelay)
    print("\nTemperature =", Temp,"degree celsius")
    print("Humidity = ",Humd,"% ")
    if(Temp>30):
        print("Hazard Detected - Alarm is on")
    else:
        print("Alarm is off")
```



The screenshot shows a Python code editor with the code from the previous block. The output window on the right displays the results of the program's execution. The output consists of multiple lines of text, each representing a single iteration of the while loop. Each iteration prints the temperature and humidity values, followed by a status message indicating whether an alarm is on or off based on the temperature. The status message is 'Hazard Detected - Alarm is on' when the temperature is greater than 30 degrees Celsius, and 'Alarm is off' otherwise. The output shows several instances of both states.

```
1 import random
2 import time
3 while(True):
4     Temp=random.randint(20,48)
5     Humd=random.randint(20,100)
6     randomDelay = random.randint(1,3)
7     time.sleep(randomDelay)
8     print("\nTemperature =", Temp,"degree celsius")
9     print("Humidity = ",Humd,"% ")
10    if(Temp>30):
11        print("Hazard Detected - Alarm is on")
12    else:
13        print("Alarm is off")
14
15
```

Temperature = 24 degree celsius  
Humidity = 93 %  
Alarm is off  
Temperature = 42 degree celsius  
Humidity = 39 %  
Hazard Detected - Alarm is on  
Temperature = 29 degree celsius  
Humidity = 43 %  
Alarm is off  
Temperature = 28 degree celsius  
Humidity = 82 %  
Alarm is off  
Temperature = 31 degree celsius  
Humidity = 31 %  
Hazard Detected - Alarm is on  
Temperature = 26 degree celsius  
Humidity = 20 %  
Alarm is off  
Temperature = 39 degree celsius  
Humidity = 53 %  
Hazard Detected - Alarm is on  
Temperature = 29 degree celsius  
Humidity = 82 %  
Alarm is off  
Temperature = 31 degree celsius