

IOT 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 detected alarm in case of high temperature

Code:

```
Import random
```

```
Temperature = random.randint(0,200)
```

```
humidity = random.randint(0,100)
```

```
print("The recorded temperature in Fahrenheit=  
",temperature)
```

```
print("The recorded humidity in percentage= ",humidity)
```

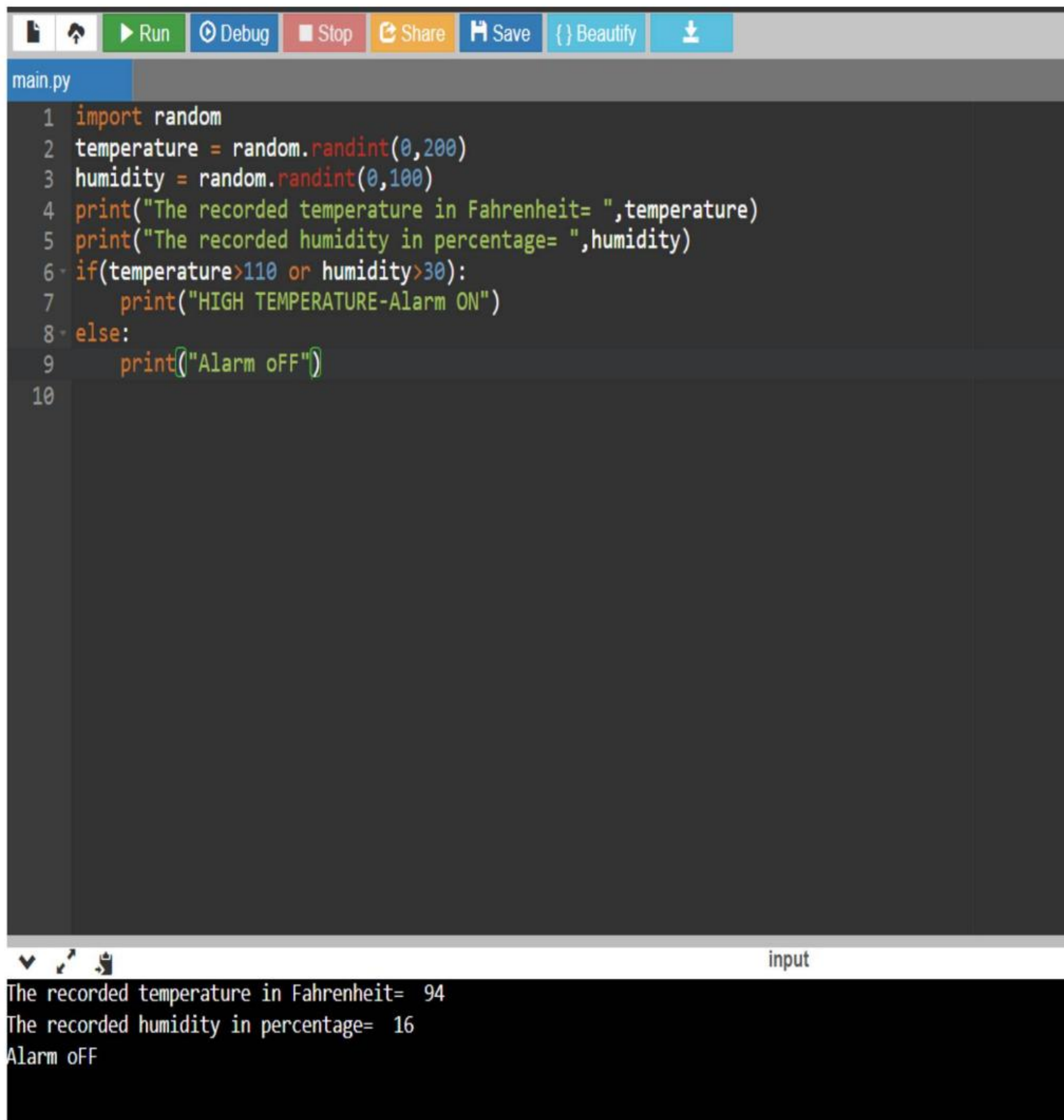
```
if(temperature>110 or humidity>30):
```

```
    print("HIGH TEMPERATURE-Alarm ON")
```

```
else:
```

```
    print("Alarm oFF")
```

output:CASE 1: ALRAM-OFF



The image shows a Python IDE window with a toolbar at the top containing icons for file operations, running, debugging, stopping, sharing, saving, beautifying, and downloading. The editor displays a file named 'main.py' with the following Python code:

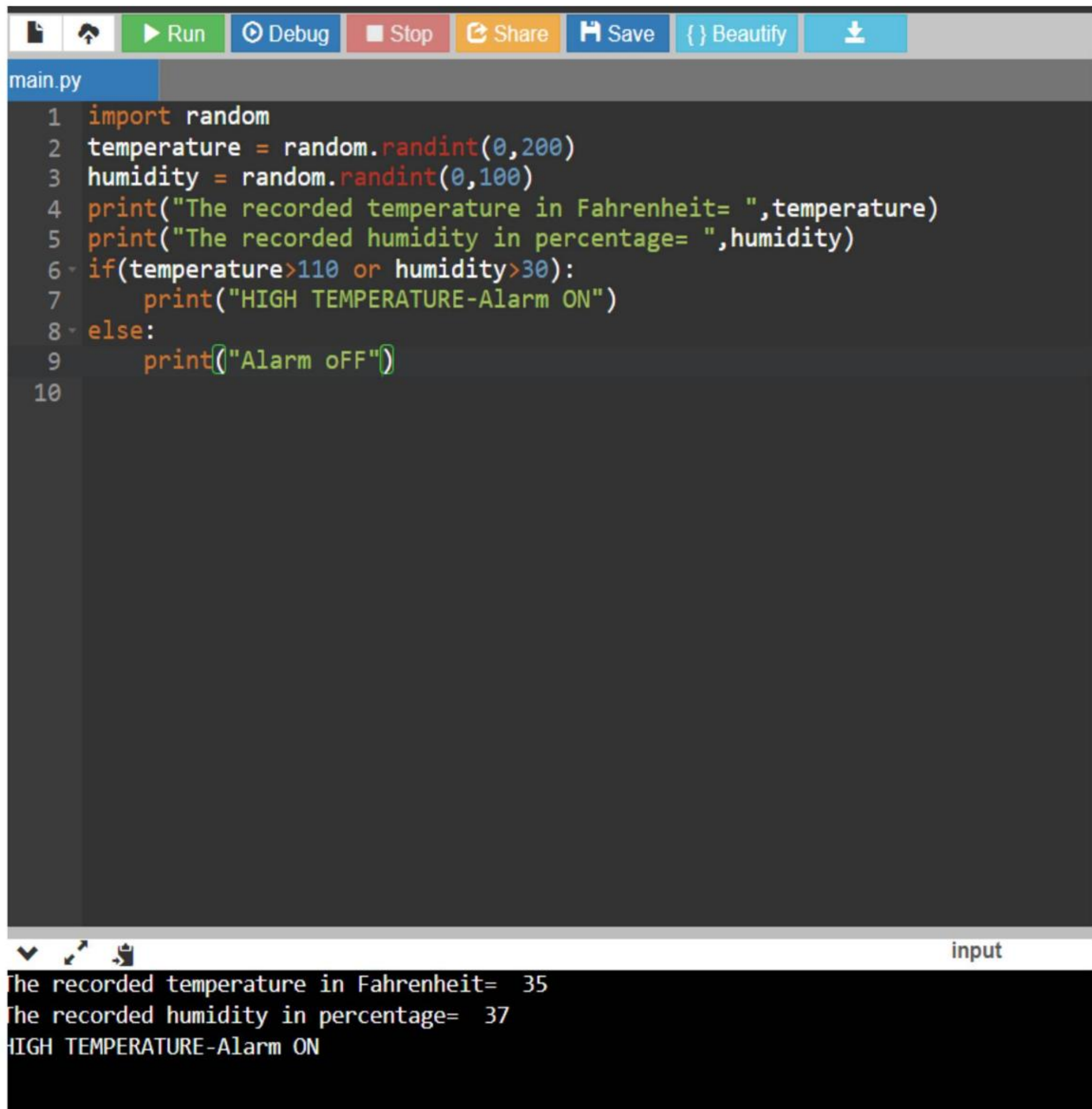
```
1 import random
2 temperature = random.randint(0,200)
3 humidity = random.randint(0,100)
4 print("The recorded temperature in Fahrenheit= ",temperature)
5 print("The recorded humidity in percentage= ",humidity)
6 if(temperature>110 or humidity>30):
7     print("HIGH TEMPERATURE-Alarm ON")
8 else:
9     print("Alarm oFF")
10
```

Below the editor, the output console shows the results of the program execution:

```
The recorded temperature in Fahrenheit= 94
The recorded humidity in percentage= 16
Alarm oFF
```

The output is displayed on a black background with white text. The word 'input' is visible in the top right corner of the output area.

CASE 2: ALRAM-ON



```
main.py
1 import random
2 temperature = random.randint(0,200)
3 humidity = random.randint(0,100)
4 print("The recorded temperature in Fahrenheit= ",temperature)
5 print("The recorded humidity in percentage= ",humidity)
6 if(temperature>110 or humidity>30):
7     print("HIGH TEMPERATURE-Alarm ON")
8 else:
9     print("Alarm oFF")
10
```

input

```
The recorded temperature in Fahrenheit= 35
The recorded humidity in percentage= 37
HIGH TEMPERATURE-Alarm ON
```