

Assignment -2

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-2:

Build a python code, Assume u get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

Solution:

Code:

```
Import random
```

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

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

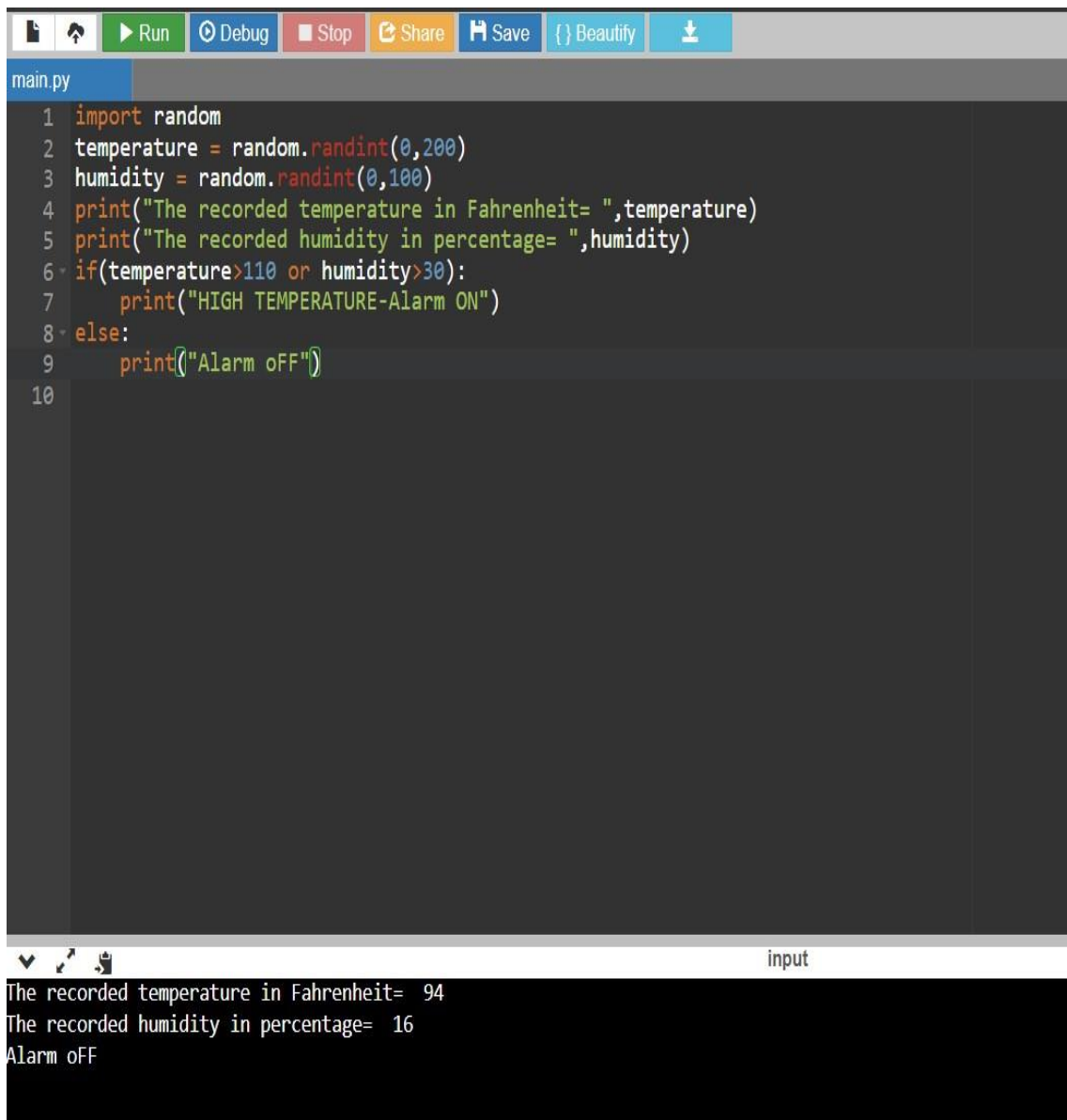
```
print("The recorded temperature in Fahrenheit="  
",temperature)
```

```
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



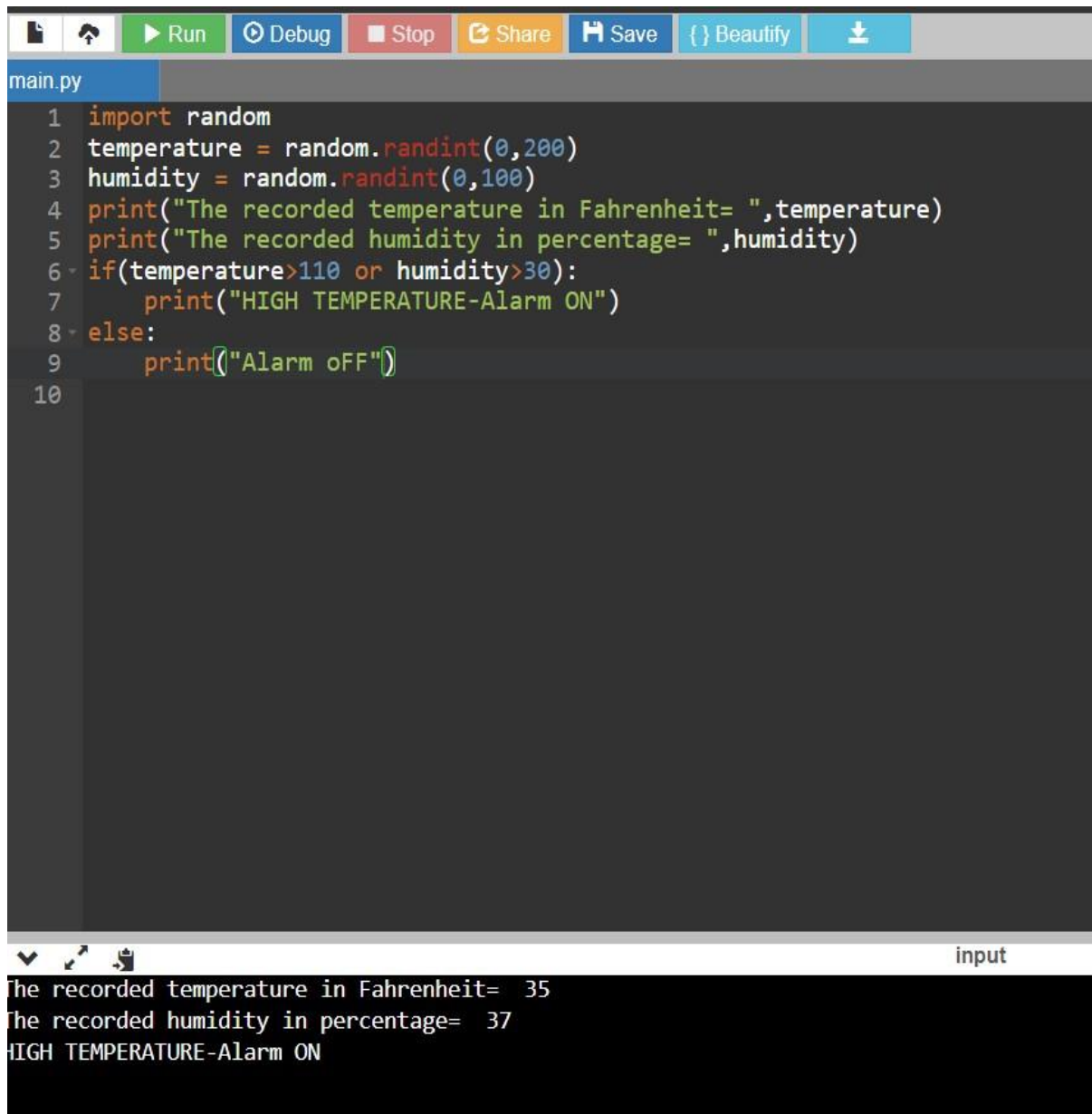
The screenshot shows a Python IDE with a dark theme. The top toolbar includes icons for file operations, a 'Run' button (green), 'Debug' (blue), 'Stop' (red), 'Share' (orange), 'Save' (blue), 'Beautify' (blue with curly braces), and a download icon. The editor window, titled 'main.py', contains the following 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 is a console window with the label 'input' on the right. It displays the output of the program:

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

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