

Assignment -2

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question:

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 .

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):
```

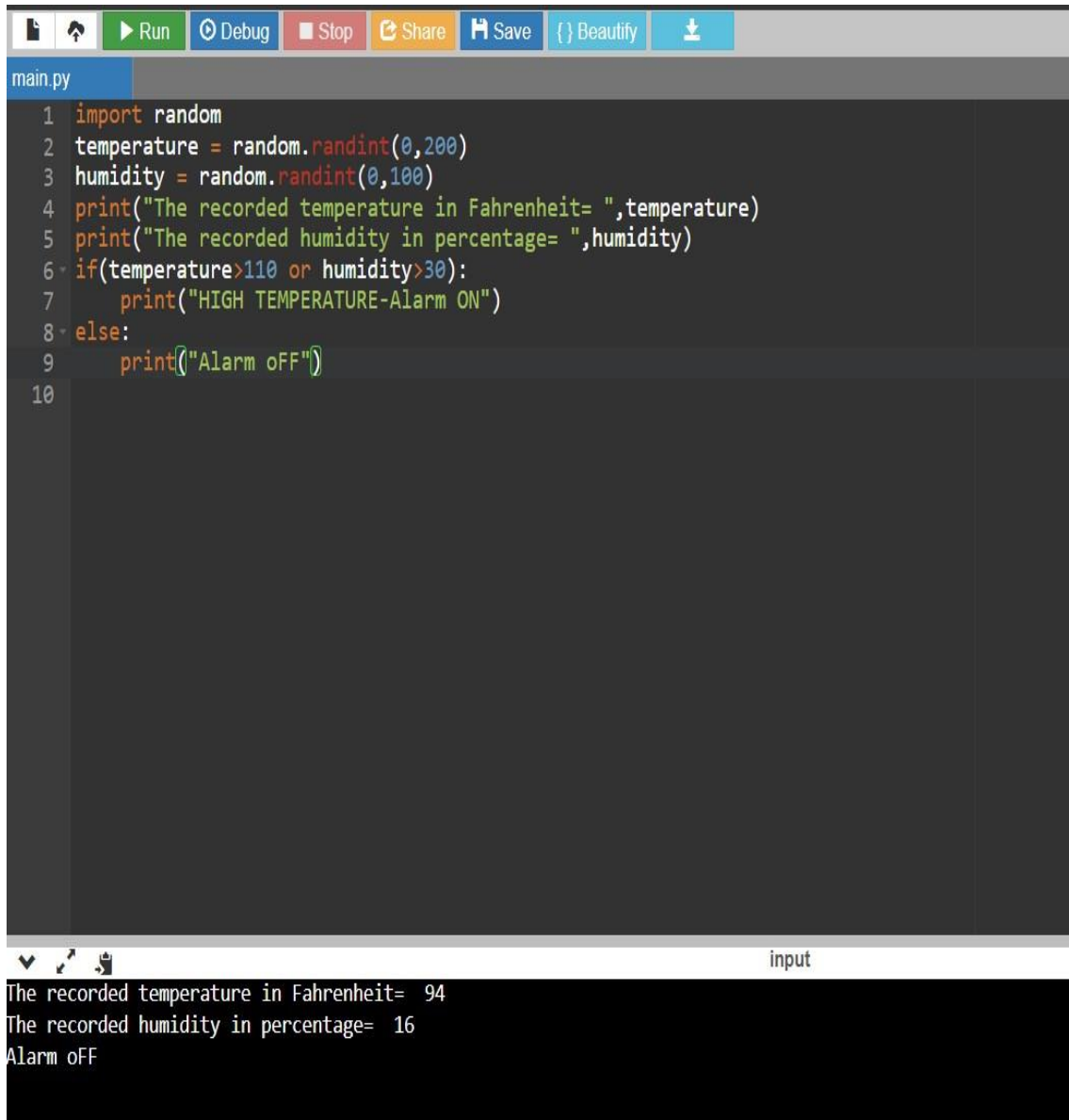
```
    print("HIGH TEMPERATURE-Alarm ON")
```

```
else:
```

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

OUTPUT:

CASE 1: ALRAM-OFF



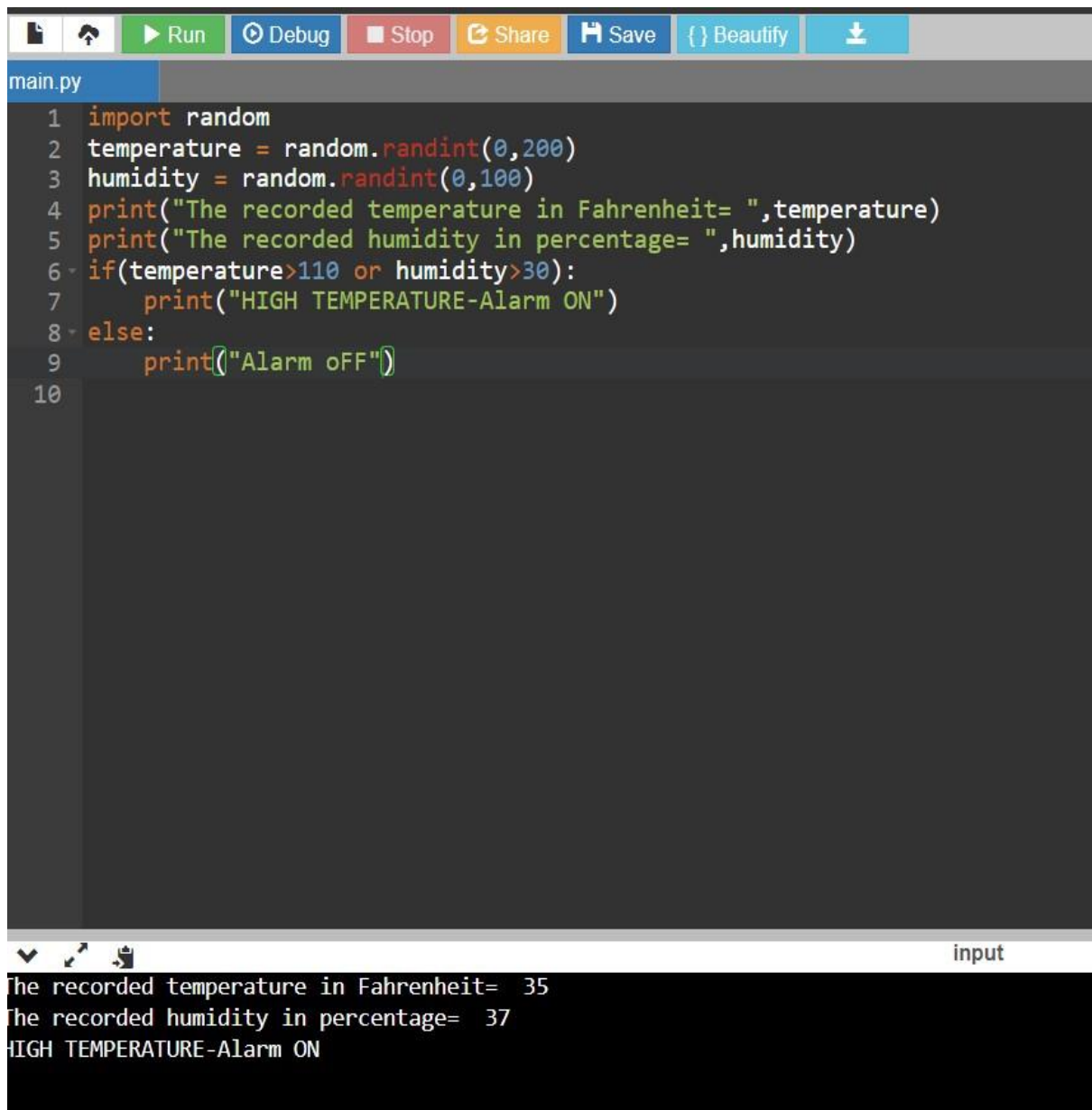
The image shows a screenshot of a code editor interface. At the top, there is a toolbar with buttons for 'Run', 'Debug', 'Stop', 'Share', 'Save', 'Beautify', and a download icon. Below the toolbar, the file name 'main.py' is displayed. The code editor contains the following Python code:

```
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 code editor, there is a terminal window with the following output:

```
input
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