

ASSIGNMENT 2

PYTHON PROGRAMMING

Submitted By

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SOLUTION

Code

```
import random

j=1

while(j<=10):

    temp=random.randint(-88,58)

    humd=random.randint(1,10)

    humd=humd*10

    print(f"TEMPERATURE: {temp}\u00B0C")

    print(f"HUMIDITY: {humd}%")

    if temp>37 and humd>50:

        print("High Temperature : ALARM IS ON")

    else:

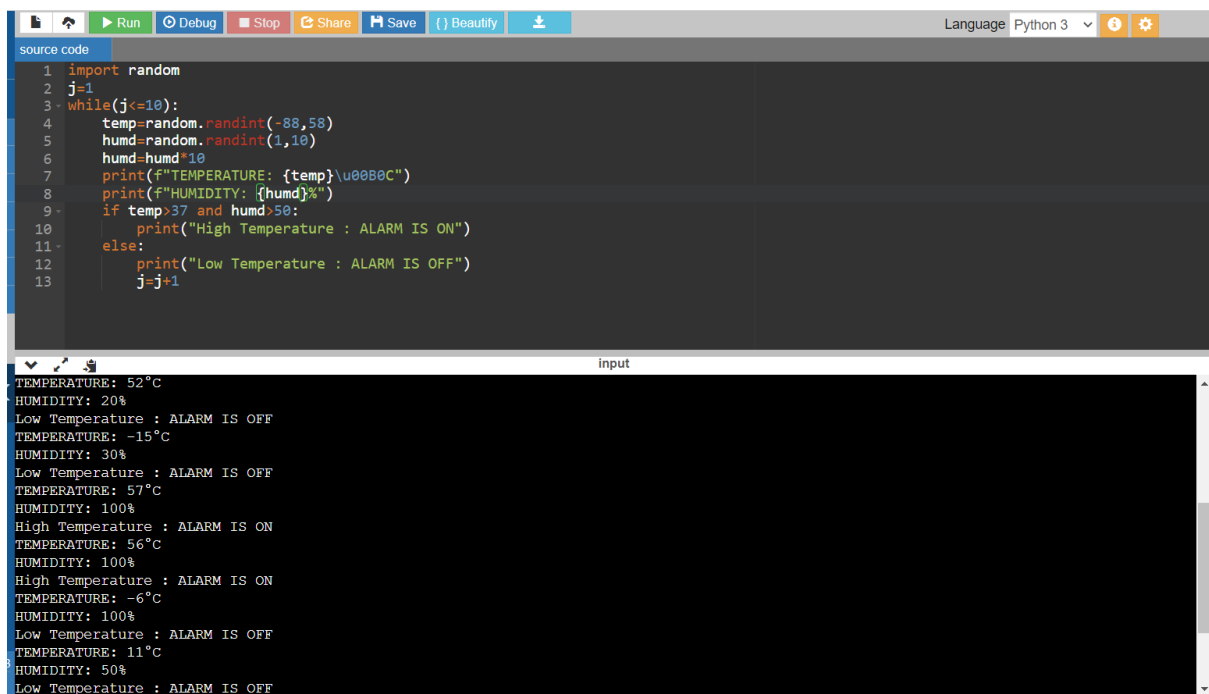
        print("Low Temperature : ALARM IS OFF")

    j=j+1
```

Output

```
TEMPERATURE: 52°C
HUMIDITY: 20%
Low Temperature : ALARM IS OFF
TEMPERATURE: -15°C
HUMIDITY: 30%
Low Temperature : ALARM IS OFF
TEMPERATURE: 57°C
HUMIDITY: 100%
High Temperature : ALARM IS ON
TEMPERATURE: 56°C
HUMIDITY: 100%
High Temperature : ALARM IS ON
TEMPERATURE: -6°C
HUMIDITY: 100%
Low Temperature : ALARM IS OFF
TEMPERATURE: 11°C
HUMIDITY: 50%
Low Temperature : ALARM IS OFF
```

SNAPSHOT OF CODE AND OUTPUT



The screenshot displays a code editor interface with a toolbar at the top containing icons for Run, Debug, Stop, Share, Save, and Beautify. The language is set to Python 3. The source code is as follows:

```
1 import random
2 j=1
3 while(j<=10):
4     temp=random.randint(-88,58)
5     humd=random.randint(1,10)
6     humd=humd*10
7     print(f"TEMPERATURE: {temp}\u00B0C")
8     print(f"HUMIDITY: {humd}%")
9     if temp>37 and humd>50:
10        print("High Temperature : ALARM IS ON")
11    else:
12        print("Low Temperature : ALARM IS OFF")
13        j=j+1
```

Below the code editor, the output is shown in a terminal window labeled 'input'. The output matches the text shown in the 'Output' section above.