

Assignment-2

Python Programming

Assignment Date	21 September 2022
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Question-1:

Write a python program to monitor temperature and humidity and display alert message that uses random function from numpy for random generation of temperature and humidity.

Solution:

```
from numpy import random
```

```
a=random.randint(100)
```

```
b=random.randint(100)
```

```
print("Temperature in celsius: ")
```

```
print(a)
```

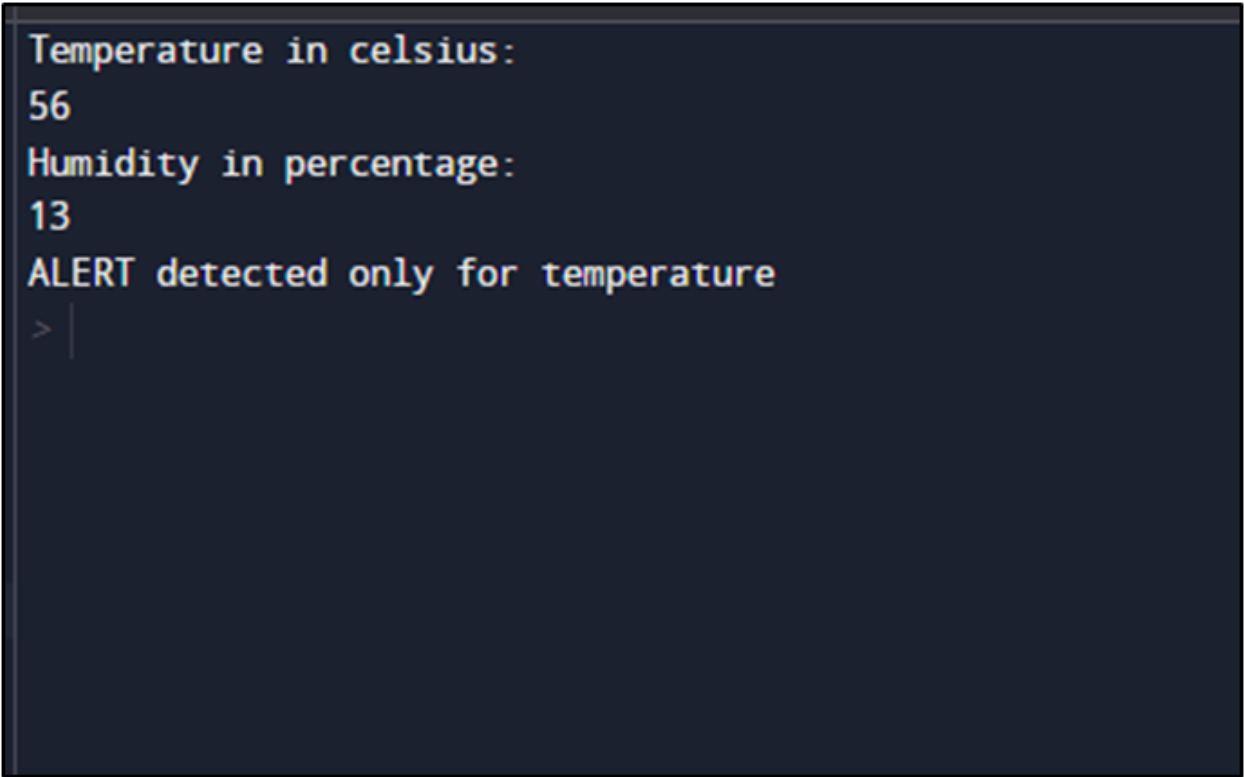
```
print("Humidity in percentage: ")
```

```
print(b)
```

```
if(a>45):
```

```
if(b>50):  
    print("DANGER!!")  
    print("ALERT detected for both temperature and humidity")  
else:  
    print("ALERT detected only for temperature")  
elif(a==30):  
    print("Temperature reaches its threshold")  
else:  
    print("Everything is good")
```

Output:

A screenshot of a terminal window with a dark blue background and light-colored text. The text shows the output of a program: 'Temperature in celsius:' followed by '56', 'Humidity in percentage:' followed by '13', and 'ALERT detected only for temperature'. A prompt character '>' is visible on the next line with a vertical cursor bar.

```
Temperature in celsius:  
56  
Humidity in percentage:  
13  
ALERT detected only for temperature  
> |
```

Temperature in celsius:

42

Humidity in percentage:

53

Everything is good

> |