

Assignment-3
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:

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

```
Temperature in celsius:  
42  
Humidity in percentage:  
53  
Everything is good  
> |
```