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
>
```