IBM-NALLAYA THIRAN PROJECT Real Time River Water Quality Monitoring and Control System

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Question:

1. Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature

Source Code:

```
import random
import time

while (1):
    temp = random.randint(0, 100)
    humidity = random.randint(0, 100)
    if temp>60:
        print("ALERT!! Detected temperature: "+str(temp)+"°C")
        time.sleep(1)
```

Output Window:

```
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        import random
             import time
{x}
             while (1):
                  temp = random.randint(0, 100)
humidity = random.randint(0, 100)
                 if temp>50:
                      print("ALERT!! Temperature limit has been reached. Detected temperature: "+str(temp)+"°C")
                      time.sleep(1)
        ... ALERT!! Temperature limit has been reached. Detected temperature: 52°C
             ALERT!! Temperature limit has been reached. Detected temperature: 64°C
             ALERT!! Temperature limit has been reached. Detected temperature: 75°C
             ALERT!! Temperature limit has been reached. Detected temperature: 64^{\circ}C ALERT!! Temperature limit has been reached. Detected temperature: 58^{\circ}C
             ALERT!! Temperature limit has been reached. Detected temperature: 87°C
             ALERT!! Temperature limit has been reached. Detected temperature: 54^{\circ}C
             ALERT!! Temperature limit has been reached. Detected temperature: 73°C
             ALERT!! Temperature limit has been reached. Detected temperature: 79°C
             ALERT!! Temperature limit has been reached. Detected temperature: 90°C
             ALERT!! Temperature limit has been reached. Detected temperature: 93°C
             ALERT!! Temperature limit has been reached. Detected temperature: 64°C ALERT!! Temperature limit has been reached. Detected temperature: 78°C
             ALERT!! Temperature limit has been reached. Detected temperature: 58°C
             ALERT!! Temperature limit has been reached. Detected temperature: 96°C
             ALERT!! Temperature limit has been reached. Detected temperature: 91^{\circ}\text{C}
<>
             ALERT!! Temperature limit has been reached. Detected temperature: 79°C
             ALERT!! Temperature limit has been reached. Detected temperature: 68°C
ALERT!! Temperature limit has been reached. Detected temperature: 87°C
             ALERT!! Temperature limit has been reached. Detected temperature: 59°C
>_
```