

ASSIGNMENT-2

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Project Name	Real-Time River Water Quality Monitoring and Control System.

TOPIC:

Assignment on temperature and humidity sensing and alarm automation using python

CODE:

```
import time

i=0

while (i<=10):

    i=i+1

    time.sleep(1)

    import random

    temperature=random.randint(0,60)

    humidity=random.randint(1,100)

    if temperature<=20:

        print(temperature, "temperature is low")

    elif temperature<=30:

        print(temperature, "temperature is normal")

    else :

        print(temperature, "alarm:The temperature is high")

    if humidity<=30:
```

```
    print(humidity, "humidity is low ")
```


```
elif humidity<=60:
```

```
    print(humidity, "humidity is normal")
```

```
else :
```

```
    print(humidity, "humidity is high")
```

Output:



```
42 alarm:The temperature is high
31 humidity is normal
35 alarm:The temperature is high
37 humidity is high
34 alarm:The temperature is high
29 humidity is low
30 temperature is normal
25 humidity is low
15 temperature is low
4 humidity is low
7 temperature is low
46 humidity is normal
33 alarm:The temperature is high
50 humidity is normal
24 temperature is normal
71 humidity is high
59 alarm:The temperature is high
92 humidity is high
29 temperature is normal
40 humidity is normal
3 temperature is low
4 humidity is low

...Program finished with exit code 0
Press ENTER to exit console.
```