

IOT ASSIGNMEN-2T

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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

NAME: ANBALAGAN.A

CODE:

```
import time
```

```
i=0
```

```
while (i<=10):
```

```
    i=i+1
```

```
    time.sleep(1)
```

```
import random
```

```
temperature=random.randint(0,30)
```

```
humidity=random.randint(1,100)
```

```
if temperature<=15:
```

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

```
elif temperature<=25:

    print(temperature, "temperature is normal")

else :

    print(temperature, "Warning:High Temperature")

if humidity<=30:

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

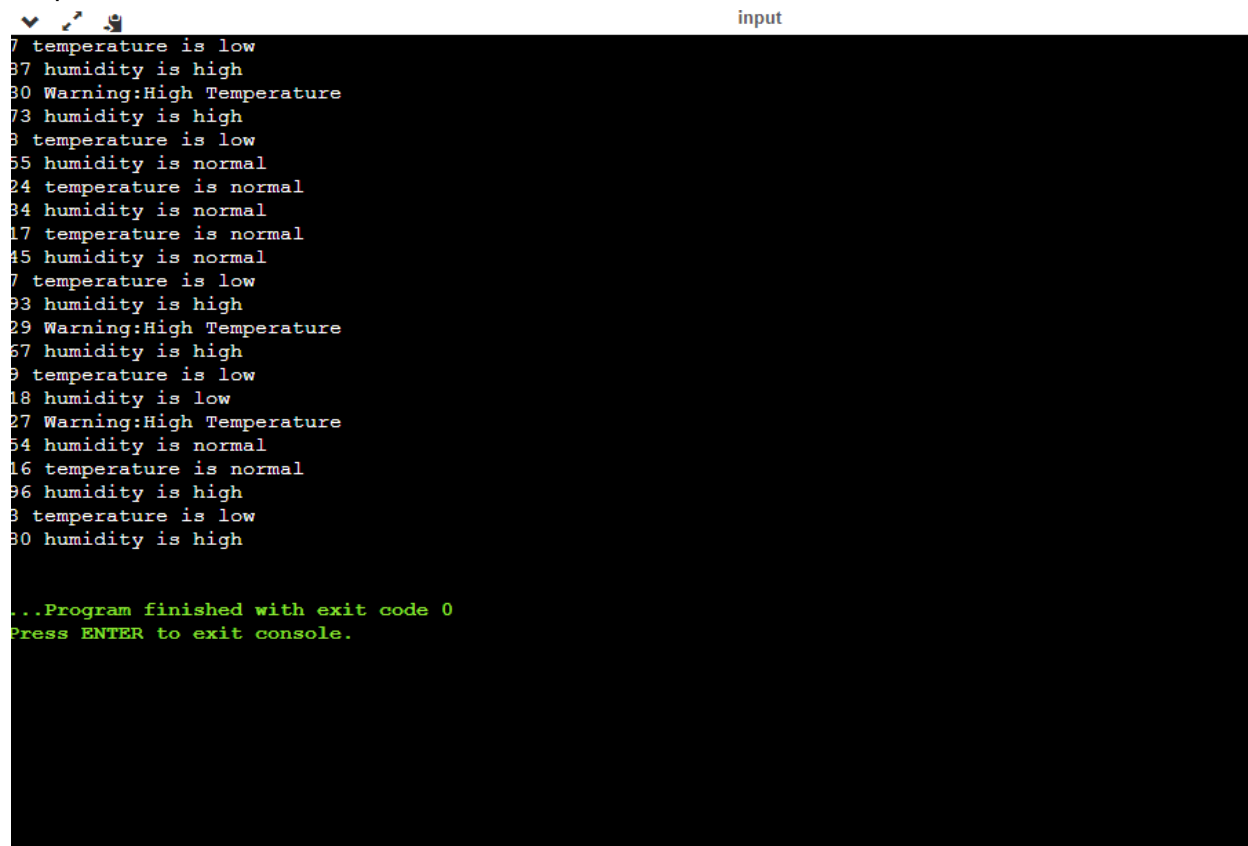
```
elif humidity<=60:

    print(humidity, "humidity is normal")

else :

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

Output:

A screenshot of a terminal window with a black background and white text. The text shows the output of a program, consisting of a list of 30 lines of status reports. Each line includes a line number followed by a status message. The status messages are: 'temperature is low', 'humidity is high', 'Warning:High Temperature', 'humidity is high', 'temperature is low', 'humidity is normal', 'temperature is normal', 'humidity is normal', 'temperature is normal', 'humidity is normal', 'temperature is low', 'humidity is high', 'Warning:High Temperature', 'humidity is high', 'temperature is low', 'humidity is low', 'Warning:High Temperature', 'humidity is normal', 'temperature is normal', 'humidity is high', 'temperature is low', and 'humidity is high'. At the bottom of the terminal, there is a green message: '...Program finished with exit code 0' and 'Press ENTER to exit console.' In the top right corner of the terminal window, the word 'input' is written in a light gray font. Above the terminal window, there are three small icons: a downward arrow, a magnifying glass, and a document icon.