

ASSIGNMENT – 2

Program :

```
import random
```

```
HIGH_TEMP_THRESHOLD =30
```

```
HIGH_HUMIDITY_THRESHOLD =80
```

```
temperature = random. randint(20, 35)
```

```
humidity = random. randint(30, 90)
```

```
if temperature > HIGH_TEMP_THRESHOLD and humidity  
> HIGH_HUMIDITY_THRESHOLD:
```

```
    print ("ALERT: High temperature and high humidity  
detected!")
```

```
elif temperature > HIGH_TEMP_THRESHOLD:
```

```
    print ("ALERT: High temperature detected!")
```

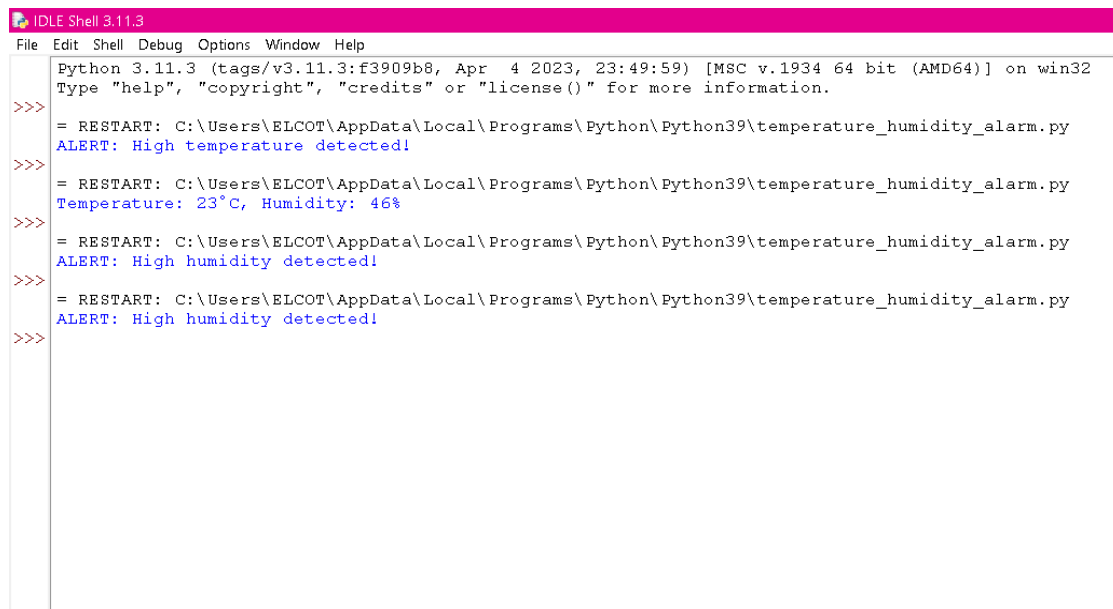
```
elif humidity > HIGH_HUMIDITY_THRESHOLD:
```

```
    print ("ALERT: High humidity detected!")
```

```
else:
```

```
print ("Temperature: {temperature}°C, Humidity:
{humidity}%")
```

Output :



```
IDLE Shell 3.11.3
File Edit Shell Debug Options Window Help
Python 3.11.3 (tags/v3.11.3:f3909b8, Apr  4 2023, 23:49:59) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> = RESTART: C:\Users\ELCOT\AppData\Local\Programs\Python\Python39\temperature_humidity_alarm.py
ALERT: High temperature detected!
>>> = RESTART: C:\Users\ELCOT\AppData\Local\Programs\Python\Python39\temperature_humidity_alarm.py
Temperature: 23°C, Humidity: 46%
>>> = RESTART: C:\Users\ELCOT\AppData\Local\Programs\Python\Python39\temperature_humidity_alarm.py
ALERT: High humidity detected!
>>> = RESTART: C:\Users\ELCOT\AppData\Local\Programs\Python\Python39\temperature_humidity_alarm.py
ALERT: High humidity detected!
>>>
```