

Assignment-2

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Program Code:

```
import sched, time
```

```
import random
```

```
def get_value():
```

```
    temp=random.randint(25,70);
```

```
    hum=random.randint(1,101);
```

```
    temp_check(temp,hum);
```

```
def temp_check(n,m):
```

```
    if(n>55):
```

```
        print("The temperature is too high...Alarm is turned on");
```

```
        print("Temperature:",n,"Celsius")
```

```
        print("Humidity:",m,"%")
```

```
    else:
```

```
        print("Normal temperature");
```

```
        print("Temperature:",n,"Celsius")
```

```
        print("Humidity:",m,"%")
```

```
s = sched.scheduler(time.time, time.sleep)
```

```
def do_something(sc):
```

```
get_value()
```

```
s.enter(5, 1, do_something, (sc,))
```

```
s.enter(5, 1, do_something, (s,))
```

```
s.run()
```

Output:

```
Normal temperature
Temperature: 26 Celsius
Humidity: 98 %
The temperature is too high...Alarm is turned on
Temperature: 67 Celsius
Humidity: 17 %
Normal temperature
Temperature: 31 Celsius
Humidity: 47 %
The temperature is too high...Alarm is turned on
Temperature: 65 Celsius
Humidity: 51 %
```