

KAMALESHWARI M

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SCREENSHOT:

```
1 import random
2
3 # generate random temperature and humidity values
4 temperature = random.uniform(0, 100)
5 humidity = random.uniform(0, 100)
6
7 # set alarm thresholds
8 temperature_threshold = 80
9 humidity_threshold = 70
10
11 # check for alarm condition
12- if temperature > temperature_threshold and humidity >
    humidity_threshold:
13     print("ALARM: High temperature and high humidity detected!")
14- elif temperature > temperature_threshold:
15     print("ALARM: High temperature detected!")
16- elif humidity > humidity_threshold:
17     print("ALARM: High humidity detected!")
18- else:
19     print("Temperature:", temperature, "Humidity:", humidity)
20
```

Temperature: 59.62412017419445 Humidity: 19.51720312124977

PROGRAM:

```
import random
```

```
# generate random temperature and humidity values
```

```
temperature = random.uniform(0, 100)
```

```
humidity = random.uniform(0, 100)
```

```
# set alarm thresholds
```

```
temperature_threshold = 80
```

```
humidity_threshold = 70
```

```
# check for alarm condition
```

```
if temperature > temperature_threshold and humidity > humidity_threshold:
    print("ALARM: High temperature and high humidity detected!")
elif temperature > temperature_threshold:
    print("ALARM: High temperature detected!")
elif humidity > humidity_threshold:
    print("ALARM: High humidity detected!")
else:
    print("Temperature:", temperature, "Humidity:", humidity)
```