

Assignment – 2
Python Programming

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Question-1:

Build a python code, Assume you get humidity and temperature values (generated with random function to a variable) and write a condition continuously detect alarm in case of high temperature.

SOLUTION:

```
import random
```

```
while True:
```

```
    a=random.randint(35,100)
```

```
b=random.randint(50,100)
```

```
    print("_____")
```

```
if a>40:
```

```
    print("High temperature is detected")
```

```
print("Buzzer on,alarm sound is high")    elif
```

```
a==40:
```

```
    print("Temperature reached maximum threshold of 40 degrees celsius")
```

```
else:
```

```
    print("Good temperature")
```

```
#for Humidity
```

```
if b>60 :
```

```
        print("High humidity is detected")
print("Buzzer on,alarm sound is high")    elif
a == 60:

    print("Humidity reached maximum threshold of 65 percent")
else:
    print("good humidity")
```

output:

High temperature is detetcted

Buzzer on,alarm sound is high

High temperature is detetcted
Buzzer on,alarm sound is high

High temperature is detetcted
Buzzer on,alarm sound is high

Temprature reached maximum thershold of 30 degrees celsi
High humidity is detetcted
Buzzer on,alarm sound is high

High temperature is detetcted

High flu*idity is detetcted

High temperature is detetcted

```
main.py | +
8     prin't(' ----- ')
9     if a>46:
10         print("High temperature is detetcted")
11         print("Buzzer on,alarm sound is high")
12     elif a==40:
13         print("Temprature reached maximum thershold of 40 degrees celsius")
14     else:
15         print("Good temperature")
16 #*or Humidity
17*     if b>60 :
18         print("High humidity is detetcted")
19         print("Buzzer on,alarm sound is high")
20     elif a == 60:
```

Ln: 23, Col: 31



Run



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Command Line Arguments

High temperature is detetcted
Buzzer ou,alarm souud is high
High humidity is detetcted
Buzzer ou,alarm souud is high

High temperature is detetcted
, Buzzer ou,alarm souud is high
High humidity is detetcted