

Assignment -2  
Python programming

Assignment Date	23 September 2022
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Maximum Marks	2 Marks

Question-1:

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

SOLUTION:

```
import random
```

```
while True:
```

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

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

```
    print("-----")    if
```

```
a>40:
```

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

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

```
a==40:
```

```
    print("Temprature reached maximum thershold of 40 degrees celsius")
```

```
else:
```

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

```
#for Humidity
```

```
if b>60 :  
    print("High humidity is detetcted")  
print("Buzzer on,alarm sound is high")    elif a  
== 60:  
  
    print("Humidity reached maximum thershold of 65 percent")  
else:  
    print("good humidity")
```

output:

```

-----
High temperature is detetcted
Buzzer on,alarm sound is high
High humidity is detetcted
Buzzer on,alarm sound is high
-----
High temperature is detetcted
Buzzer on,alarm sound is high
High humidity is detetcted
Buzzer on,alarm sound is high
-----
High temperature is detetcted
Buzzer on,alarm sound is high
good humidity
-----
High temperature is detetcted
Buzzer on,alarm sound is high
High humidity is detetcted
Buzzer on,alarm sound is high
-----
Temprature reached maximum thershold of 30 degrees celsius
High humidity is detetcted
Buzzer on,alarm sound is high
-----
High temperature is detetcted
Buzzer on,alarm sound is high
good humidity
-----
High temperature is detetcted
Buzzer on,alarm sound is high
High humidity is detetcted
Buzzer on,alarm sound is high
-----
High temperature is detetcted
Buzzer on,alarm sound is high

```

```

main.py +
8   print("-----")
9   if a>40:
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   #for 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  Share

```

High temperature is detetcted
Buzzer on,alarm sound is high
High humidity is detetcted
Buzzer on,alarm sound is high
-----
High temperature is detetcted
Buzzer on,alarm sound is high
High humidity is detetcted
Buzzer on,alarm sound is high

```