

Problem statement : IoT Based Safety  
Gadget for Child Safety Monitoring and  
Notification

Domain : Internet of Things

Assignment 2: Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

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## Python code:

```
import random

temp=random.randint(1,100)
humid=random.randint(1,100)
print(temp)
print(humid)
if(temp>30 & humid<50):
    print("Alarm detected")
elif(temp>30 & humid>50):
    print("Alarm detected")
elif(temp<30 & humid<50):
    print("Alarm not detected")
elif(temp<30 & humid>50):
    print("Alaram not detected")
```

## OUTPUT:

i)    30  
      19  
      Alarm not detected.

ii)   57  
      97  
      Alarm detected.

The screenshot shows a Python IDE with a toolbar at the top containing icons for file operations, running, debugging, and saving. The language is set to Python 3. The code in the editor is as follows:

```
1 import random
2 temp=random.randint(1,100)
3 humid=random.randint(1,100)
4 print(temp)
5 print(humid)
6 if(temp>30 & humid<50):
7     print("Alarm detected")
8 elif(temp>30 & humid>50):
9     print("Alarm detected")
10 elif(temp<30 & humid<50):
11     print("Alarm not detected")
12 elif(temp<30 & humid>50):
13     print("Alaram not detected")
14
```

The console output shows the results of the program execution:

```
19
30
Alarm not detected

...Program finished with exit code 0
Press ENTER to exit console.
```

This screenshot shows the same Python IDE and code as the first image. The console output for this execution is different:

```
57
97
Alarm detected

...Program finished with exit code 0
Press ENTER to exit console.
```