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:

```python
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.

main.py

```python
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")
```

input

```
19
30
Alarm not detected

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

main.py

```python
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")
```

input

```
57
97
Alarm detected

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