

## Assignment-2

### BATCH NO :B9-3A5E

Assignment Date	29 September 2022
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#### Python code

```
import random
x=random.randint (1,100)
y=random.randint (1,50)
print("random temperature and humidity reading")
if( (x<50) & (y<30)) :
    print ("temperature is normal:",x,"%")
    print ("humidity is normal:",y,"%")
    print ("Alarm Off")
elif( (x<50) & (y>30)):
    print("temperature is low:",x,"%")
    print ("humidity is high:",y,"%")
    print("Alarm Off")
elif( (x>50) & (y<30)) :
    print("temperature is high:",x,"%")
    print ("humidity is high:",y,"%")
    print ("Alarm On")
elif( (x>50) & (y>30)):
    print("temperature is high:",x,"%")
    print ("humidity is low:",y,"%")
    print ("Alarm On")
else:
    print("temperature is very low:",x,"%")
    print ("humidity is very low:",y,"%")
    print("Alarm Off")
```

#### Output

```
assignment.py - C:\Users\lijis\OneDrive\Desktop\assignment.py (3.10.7)
File Edit Format Run Options Window Help
import random
x=random.randint (1,100)
y=random.randint (1,50)
print("random temperature and humidity reading")
if( (x<50) & (y<30)) :
    print ("temperature is normal:",x,"%")
    print ("humidity is normal:",y,"%")
    print ("Alarm Off")
elif( (x<50) & (y>30)):
    print("temperature is low:",x,"%")
    print ("humidity is high:",y,"%")
    print("Alarm Off")
elif( (x>50) & (y<30)) :
    print("temperature is high:",x,"%")
    print ("humidity is high:",y,"%")
    print ("Alarm On")
elif( (x>50) & (y>30)):
    print("temperature is high:",x,"%")
    print ("humidity is low:",y,"%")
    print ("Alarm On")
else:
    print("temperature is very low:",x,"%")
    print ("humidity is very low:",y,"%")
    print("Alarm Off")

Ln: 24 Col: 20

IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bi
t (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\lijis\OneDrive\Desktop\assignment.py =====
random temperature and humidity reading
temperature is high: 91 %
humidity is high: 6 %
Alarm On
>>>
===== RESTART: C:\Users\lijis\OneDrive\Desktop\assignment.py =====
random temperature and humidity reading
temperature is normal: 13 %
humidity is normal: 21 %
Alarm Off
>>>
===== RESTART: C:\Users\lijis\OneDrive\Desktop\assignment.py =====
random temperature and humidity reading
temperature is normal: 39 %
humidity is normal: 26 %
Alarm Off
>>>
===== RESTART: C:\Users\lijis\OneDrive\Desktop\assignment.py =====
random temperature and humidity reading
temperature is normal: 34 %
humidity is normal: 10 %
Alarm Off
>>>
===== RESTART: C:\Users\lijis\OneDrive\Desktop\assignment.py =====
random temperature and humidity reading
temperature is high: 76 %
humidity is high: 24 %
Alarm On
>>>
===== RESTART: C:\Users\lijis\OneDrive\Desktop\assignment.py =====
random temperature and humidity reading
temperature is high: 55 %
humidity is high: 14 %
Alarm On
>>>
```