

ASSIGNMENT-2

PYTHON PROGRAM FOR TEMPERATURE AND HUMIDITY

SUBMITTED BY

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BATCH:B12-6A2E

PYTHON PROGRAM:-

```
c=int(input("enter temperature :"))
b=int(input("enter humidity:"))
def hightemp(y,z):
    if(y>=120):
        print("temp detected is high:",y)
    if(z>=80):
        print("humidity detected is high:",z)
    print("environment is in good condition")
```

```
        print("buzzer off")
    else:
        print("humidity detected is low:",z)
        print("hazzard detected")
        print("buzzer on")
    else:
        print("temp detected is low:",y)
        print("plesent environment condition")
hightemp(c,b)
```

OUTPUT:-

Consider 'c' as temperature and 'b' as humidity:

1)For c=120 and b=80

```
enter temperature:120
enter humidity:80
temp detected is high:120
humidity detected is high:80
environment is in good condition
buzzer off
```

2)For c=60 and b=85

```
enter temperature:60
enter humidity:85
temp detected is low:60
```

present environment condition

3)For c=130 and b=79

enter temperature:130

enter humidity:79

temp detected is high:130

humidity detected is low:79

hazzard detected

buzzer on

4)For c=130 and b=90

enter temperature:130

enter humidity:90

temp detected is high:130

humidity detected is high:90

environment is in good condition

buzzer off

SNAP OF THE PROGRAM:-

```
IDLE Shell 3.10.7 - C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/div.com (3.10.7)
File Edit Shell Debug Options Window Help
===== RESTART: C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/div.py =====
enter temp value:
===== RESTART: C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/div.py =====
enter temp value:120
enter humidity value:80
>>> enter humidity value:80
SyntaxError: invalid syntax
>>>
===== RESTART: C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/div.py =====
enter temperature:120
enter humidity:80
temp detected is high: 120
humidity detected is high: 80
environment is in good condition
buzzer off
>>>
>>>
===== RESTART: C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/div.py =====
enter temperature:60
enter humidity:85
temp detected is low: 60
plesent environment condition
>>>
===== RESTART: C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/div.py =====
enter temperature:130
enter humidity:79
temp detected is high: 130
humidity detected is low: 79
hazzard detected
buzzer on
>>>
===== RESTART: C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/div.py =====
enter temperature:130
enter humidity:90
temp detected is high: 130
humidity detected is high: 90
environment is in good condition
buzzer off
>>>
```

```
divya.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/divya.py (3.10.7)
File Edit Format Run Options Window Help
c=int(input("enter temperature:"))
b=int(input("enter humidity:"))
def hightemp(y,z):
    if(y>=120):
        print("temp detected is high:",y)
        if(z>=80):
            print("humidity detected is high:",z)
            print("environment is in good condition")
            print("buzzer off")
        else:
            print("humidity detected is low:",z)
            print("hazzard detected")
            print("buzzer on")
    else:
        print("temp detected is low:",y)
        print("plesent environment condition")
hightemp(c,b)
```