Innovation, Employability Professional Readiness for
and Entrepreneurship

ASSIGNMENT – 2

PYTHON PROGRAM FOR TEMPERATURE AND HUMIDITY

SUBMITTED BY

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BATCH: B12-6A2E

PYTHON PROGRAM : -

```
a=int(input("Enter temperature value: "))
b=int(input("Enter humidity value: "))
def hightemp(x,y):
    if (x>=100):
        print("TEMPERATURE DETECTED IS HIGH: ",x)
        if (y>=90):
            print("HUMIDITY DETECTED IS HIGH: ",y)
            print("ENVIRONMENT IS IN GOOD CONDITION")
            print("BUZZER OFF")
        else:
            print("HUMIDITY DETECTED IS LOW: ",y)
            print("HAZZARD DETECTED")
            print("BUZZER ON")
    else:
        print("TEMPERATURE DETECTED IS LOW: ",x)
        print("PLESENT ENVIRONMENT CONDITION")
hightemp(a,b)
```

OUTPUT:-

Assume temperature to be ‘a’ and humidity to be ‘b’

(1)For a=100 & b=90

Enter temperature value: 100
Enter humidity value: 90
TEMPERATURE DETECTED IS HIGH: 100
HUMIDITY DETECTED IS HIGH: 90
ENVIRONMENT IS IN GOOD CONDITION
BUZZER OFF

(2)For a=70 & b=95

Enter temperature value: 70
Enter humidity value: 95
TEMPERATURE DETECTED IS LOW: 70
PLESENT ENVIRONMENT CONDITION

(3)For a=110 & b=89

Enter temperature value: 110
Enter humidity value: 89
TEMPERATURE DETECTED IS HIGH: 110
HUMIDITY DETECTED IS LOW: 89
HAZZARD DETECTED
BUZZER ON

(4)For a=110 & b=100

Enter temperature value: 110
Enter humidity value: 100
TEMPERATURE DETECTED IS HIGH: 110
HUMIDITY DETECTED IS HIGH: 100
ENVIRONMENT IS IN GOOD CONDITION
BUZZER OFF

SNAPS OF THE PROGRAM:

Assignment 2 by nivedha.py - C:\Users\HP\AppData\Local\Programs\Python\Python310\Assignment 2 by nivedha.py (3.10.6)

File Edit Format Run Options Window Help

```
a=int(input("Enter temperature value: "))
b=int(input("Enter humidity value: "))
def hightemp(x,y):
    if (x>=100):
        print("TEMPERATURE DETECTED IS HIGH: ",x)
        if (y>=90):
            print("HUMIDITY DETECTED IS HIGH: ",y)
            print("ENVIRONMENT IS IN GOOD CONDITION")
            print("BUZZER OFF")
        else:
            print("HUMIDITY DETECTED IS LOW: ",y)
            print("HAZZARD DETECTED")
            print("BUZZER ON")
    else:
        print("TEMPERATURE DETECTED IS LOW: ",x)
        print("PLESENT ENVIRONMENT CONDITION")
hightemp(a,b)
```

IDLE Shell 3.10.6

File Edit Shell Debug Options Window Help

```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug  1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\HP\AppData\Local\Programs\Python\Python310\Assignment 2 by nivedha.py
Enter temperature value: 100
Enter humidity value: 90
TEMPERATURE DETECTED IS HIGH:  100
HUMIDITY DETECTED IS HIGH:  90
ENVIRONMENT IS IN GOOD CONDITION
BUZZER OFF
>>>
= RESTART: C:\Users\HP\AppData\Local\Programs\Python\Python310\Assignment 2 by nivedha.py
Enter temperature value: 70
Enter humidity value: 95
TEMPERATURE DETECTED IS LOW:  70
PLESENT ENVIRONMENT CONDITION
>>>
= RESTART: C:\Users\HP\AppData\Local\Programs\Python\Python310\Assignment 2 by nivedha.py
Enter temperature value: 110
Enter humidity value: 89
TEMPERATURE DETECTED IS HIGH:  110
HUMIDITY DETECTED IS LOW:  89
HAZZARD DETECTED
BUZZER ON
>>>
= RESTART: C:\Users\HP\AppData\Local\Programs\Python\Python310\Assignment 2 by nivedha.py
Enter temperature value: 110
Enter humidity value: 100
TEMPERATURE DETECTED IS HIGH:  110
HUMIDITY DETECTED IS HIGH:  100
ENVIRONMENT IS IN GOOD CONDITION
BUZZER OFF
>>>
```