

ASSIGNMENT TASK – 2

PROJECT TITLE:

IoT Based Smart Crop Protection System for Agriculture

TEAM DETAILS:

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ASSIGNMENT TASK DETAIL:

TASK: Assignment on temperature and humidity sensing and alarm automation using python

CODE:

```
import random
```

```
i=10
```

```
while(True):
```

```
    a=random.randint(10,100)
```

```
    b=random.randint(10,100)
```

```
    if(a>35 and b<65):
```

```
        print("HIGH TEMPERATURE =",a,"%", "AND HUMIDITY =",b,"%","ALARM IS ON")
```

```
    elif(a<35 and b>65):
```

```
        print("NORMAL TEMPERATURE =",a,"%", "AND HUMIDITY =",b,"%","ALARM IS OFF")
```

```
    if(i<55):
```

```
        i=i+1
```

```
        random
```

```
    else:
```

```
        break
```

ASSIGN-2.py - C:/Users/hp/AppData/Local/Programs/Python/Python38-32/ASSIGN-2.py (3.8.5)

File Edit Format Run Options Window Help

```
import random
i=10
while(True):
    a=random.randint(10,100)
    b=random.randint(10,100)
    if(a>35 and b<65):
        print("HIGH TEMPERATURE =",a,"%", "AND HUMIDITY =",b,"%","ALARM IS ON")
    elif(a<35 and b>65):
        print("NORMAL TEMPERATURE =",a,"%", "AND HUMIDITY =",b,"%","ALARM IS OFF")
    if(i<55):
        i=i+1
        random
    else:
        break
```

OUTPUT:

```
Python 3.8.5 Shell
File Edit Shell Debug Options Window Help
Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:43:08) [MSC v.1926 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/hp/AppData/Local/Programs/Python/Python38-32/ASSIGN-2.py =====
NORMAL TEMPERATURE = 19 % AND HUMIDITY = 84 % ALARM IS OFF
HIGH TEMPERATURE = 96 % AND HUMIDITY = 13 % ALARM IS ON
NORMAL TEMPERATURE = 30 % AND HUMIDITY = 94 % ALARM IS OFF
HIGH TEMPERATURE = 69 % AND HUMIDITY = 14 % ALARM IS ON
HIGH TEMPERATURE = 93 % AND HUMIDITY = 50 % ALARM IS ON
HIGH TEMPERATURE = 72 % AND HUMIDITY = 64 % ALARM IS ON
HIGH TEMPERATURE = 46 % AND HUMIDITY = 64 % ALARM IS ON
NORMAL TEMPERATURE = 29 % AND HUMIDITY = 78 % ALARM IS OFF
HIGH TEMPERATURE = 64 % AND HUMIDITY = 57 % ALARM IS ON
HIGH TEMPERATURE = 95 % AND HUMIDITY = 53 % ALARM IS ON
HIGH TEMPERATURE = 68 % AND HUMIDITY = 28 % ALARM IS ON
HIGH TEMPERATURE = 39 % AND HUMIDITY = 40 % ALARM IS ON
HIGH TEMPERATURE = 37 % AND HUMIDITY = 37 % ALARM IS ON
NORMAL TEMPERATURE = 27 % AND HUMIDITY = 74 % ALARM IS OFF
HIGH TEMPERATURE = 67 % AND HUMIDITY = 64 % ALARM IS ON
NORMAL TEMPERATURE = 21 % AND HUMIDITY = 95 % ALARM IS OFF
NORMAL TEMPERATURE = 10 % AND HUMIDITY = 67 % ALARM IS OFF
NORMAL TEMPERATURE = 21 % AND HUMIDITY = 96 % ALARM IS OFF
HIGH TEMPERATURE = 62 % AND HUMIDITY = 12 % ALARM IS ON
HIGH TEMPERATURE = 60 % AND HUMIDITY = 39 % ALARM IS ON
HIGH TEMPERATURE = 69 % AND HUMIDITY = 60 % ALARM IS ON
HIGH TEMPERATURE = 43 % AND HUMIDITY = 18 % ALARM IS ON
NORMAL TEMPERATURE = 10 % AND HUMIDITY = 100 % ALARM IS OFF
HIGH TEMPERATURE = 78 % AND HUMIDITY = 14 % ALARM IS ON
>>> |
```