

Dr. Mahalingam College of Engineering and Technology

Department of Computer Science and Engineering

IOT Assignment

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

Name: GIRIPRASATH S S

Code:-

```
import random
while(True):
    a=random.randint(10,99) b=random.randint(10,99) if(a>35 and b>60):
        print("high temperature and humidity of:",a,b,"%","alarm is on")
    elif(a<35 and b<60):
        print("Normal temperature and humidity of:",a,b,"%","alarm is off")
        break
```

Output:

The screenshot shows a PyCharm IDE interface. On the left, there's a vertical toolbar with icons for Python, C/C++, C, Java, JavaScript, and HTML. The main area has tabs for 'main.py' and 'Shell'. The 'main.py' tab contains the following Python code:

```
1 import random
2 while(True):
3     a=random.randint(10,99)
4     b=random.randint(10,99)
5     if(a>35 and b>60):
6         print("high temperature and humidity of:",a,b,"%","alarm is on")
7     elif(a<35 and b<60):
8         print("Normal temperature and humidity of:",a,b,"%","alarm is off")
9     break
```

The 'Run' button is highlighted in blue. To the right, the 'Shell' tab shows the output of the script:

```
high temperature and humidity of: 46 95 % alarm is on
high temperature and humidity of: 84 63 % alarm is on
high temperature and humidity of: 48 67 % alarm is on
high temperature and humidity of: 62 78 % alarm is on
high temperature and humidity of: 55 92 % alarm is on
Normal temperature and humidity of: 25 41 % alarm is off
> |
```

A floating window in the bottom right corner promotes a 'PRICE-HIKE Sale' with a discount offer.