

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: Sivarohith A

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 Python code editor interface. On the left, there's a sidebar with icons for various file types: Python (selected), Java, C/C++, JavaScript, MySQL, and HTML/CSS. The main area has tabs for 'main.py' and 'Shell'. The 'Run' button is highlighted in blue. The code in 'main.py' is as follows:

```
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
```

In the 'Shell' tab, the output of the code is displayed:

```
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 promotional modal window is overlaid on the right side of the screen, advertising a 'PRICE-HIKE Sale'. It includes text: 'PRICE-HIKE Sale is live now!', 'Claim 60% off on PRO.', and 'Learn practically and get certified.' A blue 'Claim Discount' button is at the bottom.