

V.S.B Engineering College, Karur-639111

Department of Electronics and Communication Engineering

Assignment-II

TITLE: Industry-Specific Intelligent Fire Management System

DOMAIN NAME : Internet Of Things

NAME: P. Jegapriya

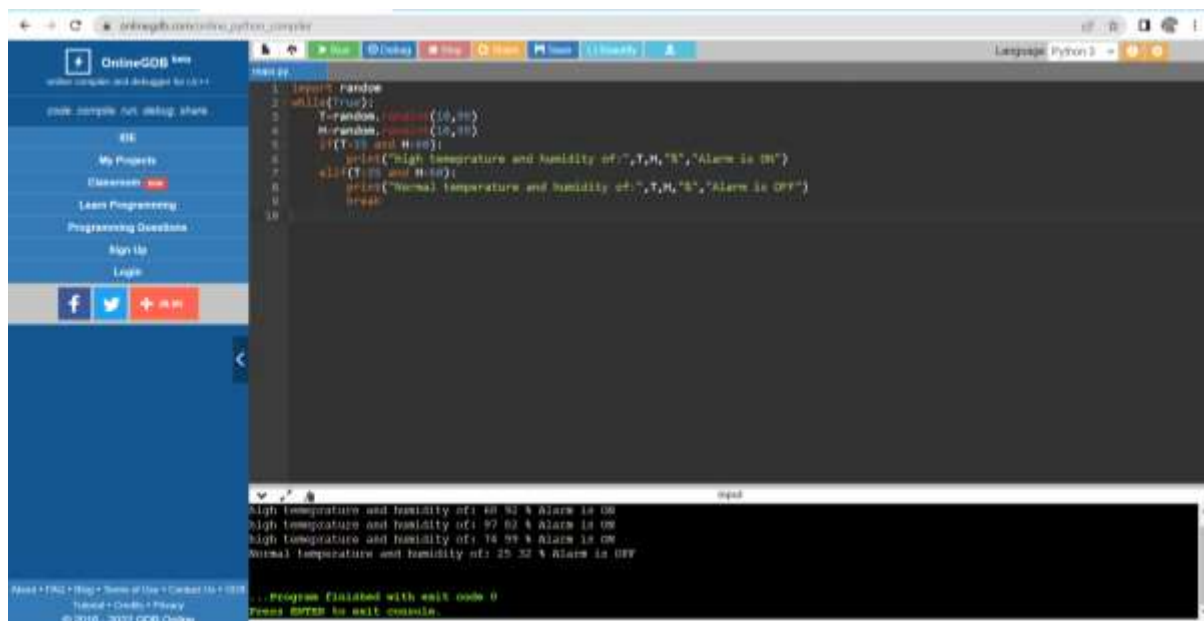
MENTOR NAME : Ms.S.Janani

Assignment: Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

CODE:

```
import random
while(True):
    T=random.randint(10,99)
    H=random.randint(10,99)
    if(T>35 and H>60):
        print("high temperature and humidity of:",T,H,"%","Alarm is ON")
    elif(T<35 and H<60):
        print("Normal temperature and humidity of:",T,H,"%","Alarm is OFF")
    break
```

OUTPUT:



The screenshot displays the OnlineGDB Python 3 online compiler interface. The left sidebar contains navigation links: "code, compile, run, debug, share", "IDE", "My Projects", "Classroom", "Learn Programming", "Programming Questions", "Sign Up", and "Login". The main editor area shows a Python script that generates random temperature and humidity values and checks if an alarm should be on or off based on these values. The output window at the bottom shows the results of the script's execution.

```
1 import random
2 while(True):
3     T=random.randrange(10,50)
4     H=random.randrange(10,90)
5     if(T>30 and H>60):
6         print("high temperature and humidity of:",T,H,"°","Alarm is ON")
7     else(T<30 and H<60):
8         print("Normal temperature and humidity of:",T,H,"°","Alarm is OFF")
9     break
10
```

high temperature and humidity of: 40 52 ° & Alarm is ON
high temperature and humidity of: 37 62 ° & Alarm is ON
high temperature and humidity of: 16 59 ° & Alarm is ON
Normal temperature and humidity of: 25 32 ° & Alarm is OFF

... Program finished with exit code 0
Press ENTER to exit console.