

BANNARI AMMAN INSTITUTE OF TECHNOLOGY,
SATHYAMANGALAM

Department of Computer Science and Engineering

IOT Assignment

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

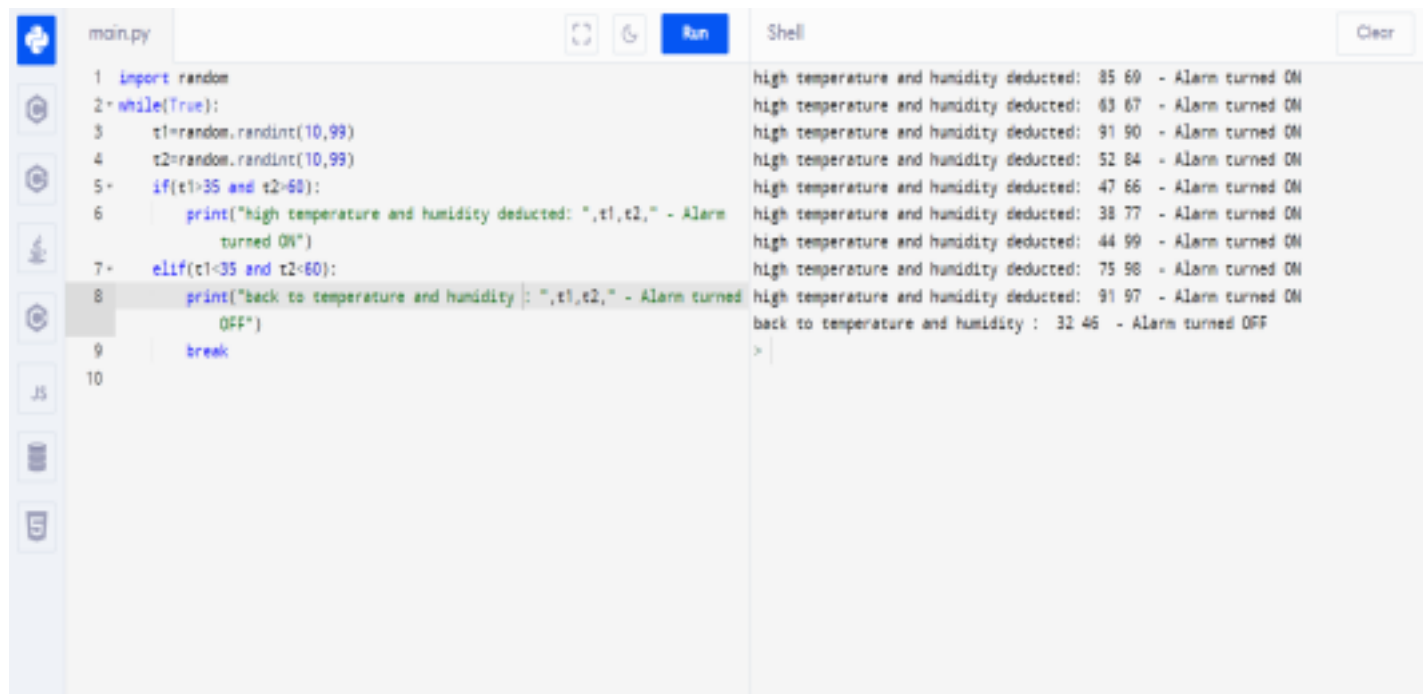
Name: Aravindhana P

Code:-

```
import random
while(True):
    t1=random.randint(10,99)
    t2=random.randint(10,99)
    if(t1>35 and t2>60):
        print("high temperature and humidity deducted: ",t1,t2," - Alarm turned ON")
    elif(t1<35 and t2<60):
```

```
print("back to temperature and humidity : ",t1,t2," - Alarm turned OFF")
break
```

OUTPUT:



The screenshot shows a Python IDE with a file named 'main.py' and a 'Shell' window. The script in 'main.py' is as follows:

```
1 import random
2 while(True):
3     t1=random.randint(10,99)
4     t2=random.randint(10,99)
5     if(t1>35 and t2>60):
6         print("high temperature and humidity deducted: ",t1,t2," - Alarm
          turned ON")
7     elif(t1<35 and t2<60):
8         print("back to temperature and humidity : ",t1,t2," - Alarm turned
          OFF")
9         break
10
```

The 'Shell' window displays the output of the script, showing ten iterations where the alarm is turned ON, followed by a final iteration where the alarm is turned OFF:

```
high temperature and humidity deducted: 85 69 - Alarm turned ON
high temperature and humidity deducted: 63 67 - Alarm turned ON
high temperature and humidity deducted: 91 90 - Alarm turned ON
high temperature and humidity deducted: 52 84 - Alarm turned ON
high temperature and humidity deducted: 47 66 - Alarm turned ON
high temperature and humidity deducted: 38 77 - Alarm turned ON
high temperature and humidity deducted: 44 99 - Alarm turned ON
high temperature and humidity deducted: 75 98 - Alarm turned ON
high temperature and humidity deducted: 91 97 - Alarm turned ON
back to temperature and humidity : 32 46 - Alarm turned OFF
>
```