

**SRI SAIRAM ENGINEERING COLLEGE**

**CHENNAI-44**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

**IBM – NALAIYA THIRAN**

**ASSIGNMENT - 2**

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**ASSIGNMENT :** Bulid a python code, assume you get temperature and humidity values and write a condition to continously detect alarm in case of high temperature.

**PROGRAM :**

```
Import random
```

```
while(True):
```

```
a=random.randint(18,99)
```

```
b=random.randint(18,99)
```

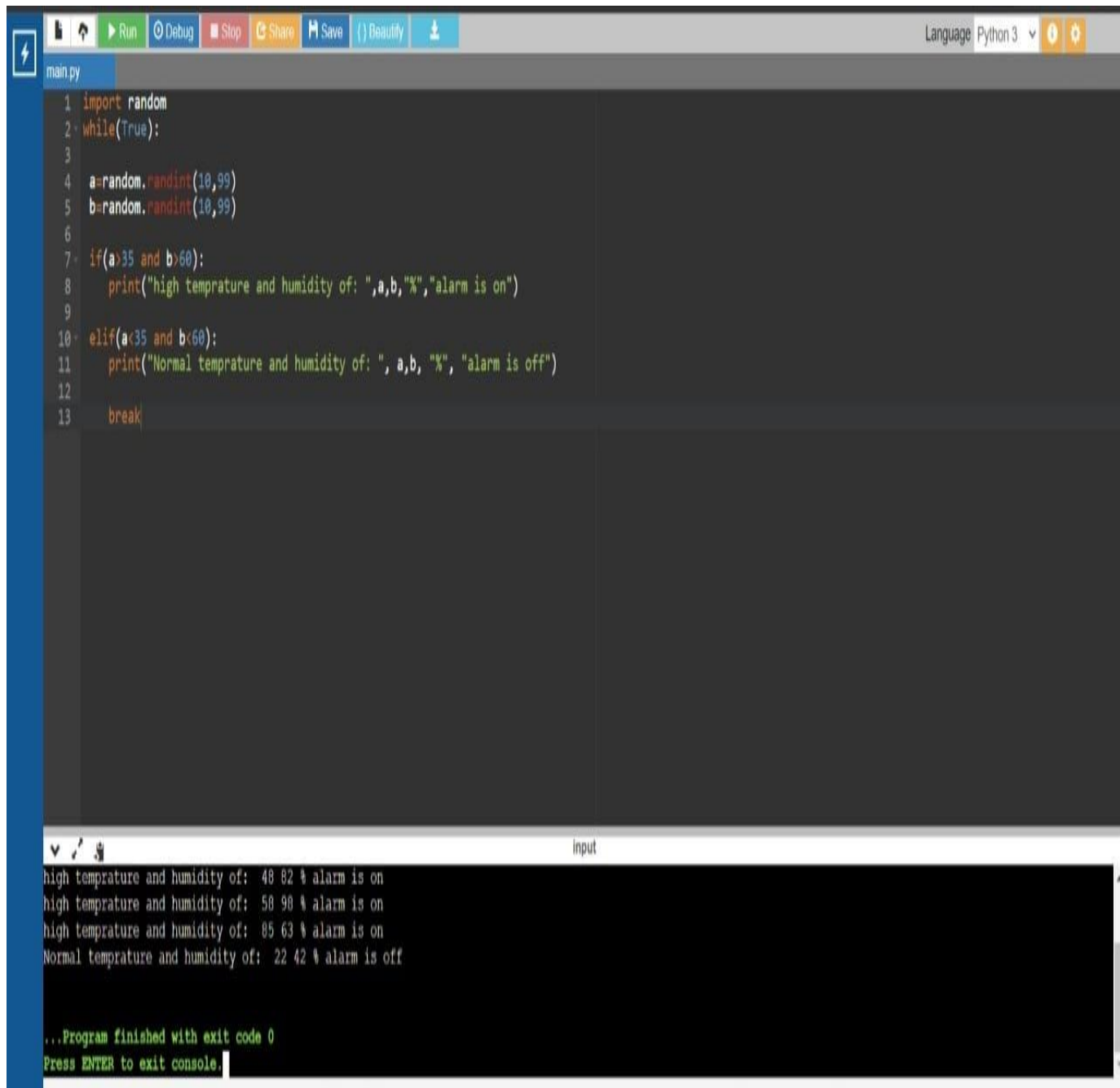
```
if(a > 35 and b < 68):
```

```
print("high temprature and humidity of: ",a,b,"%", "alarm is on")
```

```
elif(a < 35, and b < 60):
```

```
print("Normal temprature and humidity of: ", a,b, "%", "alarm is off")
```

```
break
```



The image shows a Python IDE interface. At the top, there is a toolbar with icons for file operations, running, debugging, and saving. The language is set to Python 3. The main editor area contains a Python script named 'main.py'. The script imports the 'random' module and enters a 'while(True):' loop. Inside the loop, it generates two random integers, 'a' and 'b', both ranging from 10 to 99. It then checks if 'a' is greater than 35 and 'b' is greater than 60. If true, it prints 'high temprature and humidity of: ', followed by the values of 'a' and 'b', and 'alarm is on'. If false, it prints 'Normal temprature and humidity of: ', followed by the values of 'a' and 'b', and 'alarm is off'. The loop is broken after the first iteration. Below the editor, there is a console window showing the output of the program, which matches the script's logic. The program finishes with exit code 0.

```
1 import random
2 while(True):
3
4     a=random.randint(10,99)
5     b=random.randint(10,99)
6
7     if(a>35 and b>60):
8         print("high temprature and humidity of: ",a,b,"%", "alarm is on")
9
10    elif(a<35 and b<60):
11        print("Normal temprature and humidity of: ", a,b, "%", "alarm is off")
12
13    break
```

high temprature and humidity of: 48 82 % alarm is on  
high temprature and humidity of: 50 90 % alarm is on  
high temprature and humidity of: 05 63 % alarm is on  
Normal temprature and humidity of: 22 42 % alarm is off

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