

IBM NALAYATHIRAN

DOMAIN-IOT

ASSIGNMENT 2

*TEMPERATURE AND HUMIDITY SENSING AND ALARM AUTOMATION USING
PYTHON*

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CODE:

```
import random
```

```
while(True):
```

```
    a=random.randint(10,99)
```

```
    b=random.randint(10,99)
```

```
    if(a>35 and b>60):
```

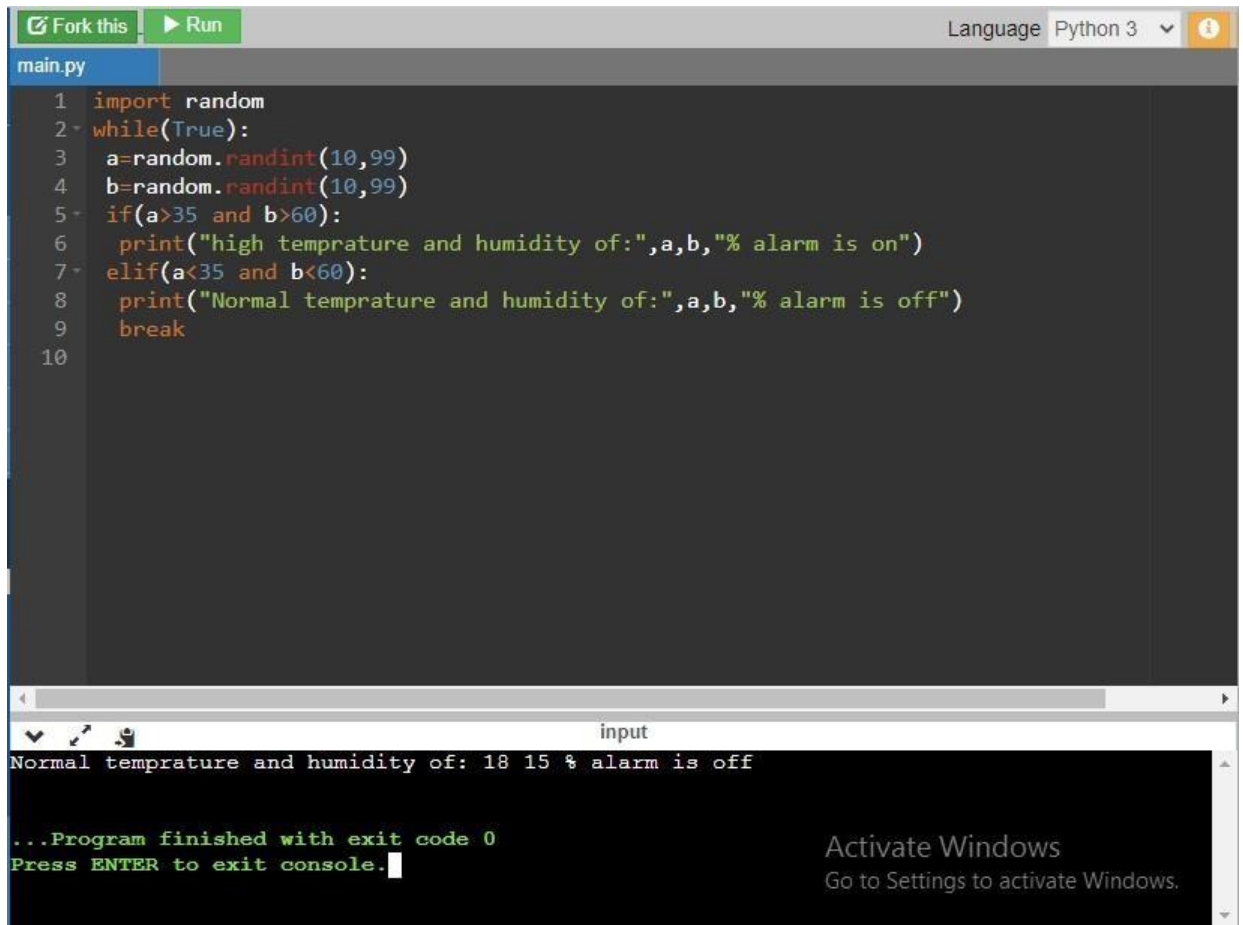
```
        print("high temprature and humidity of:",a,b,"% alarm is on")
```

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

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

```
    break
```

OUTPUT:



The image shows a web-based Python IDE interface. At the top, there are buttons for 'Fork this' and 'Run', and a language selector set to 'Python 3'. The main editor area, titled 'main.py', 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 temprature and humidity of:",a,b,"% alarm is on")
7     elif(a<35 and b<60):
8         print("Normal temprature and humidity of:",a,b,"% alarm is off")
9         break
10
```

Below the editor is a terminal window with a title bar that includes a file icon, a refresh icon, and the label 'input'. The terminal output shows the result of the program's execution:

```
Normal temprature and humidity of: 18 15 % alarm is off

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

On the right side of the terminal window, there is a Windows activation watermark that reads: 'Activate Windows Go to Settings to activate Windows.'