

## ASSIGNMENT-2

**Build a python code, assume that temperature and humidity values generated with random function to a variable and write a condition to continuously detect alarm in case of high temperature.**

Program:

```
import random
```

```
while(True):
```

```
    a=random.randint(10,120)
```

```
    b=random.randint(10,120)
```

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

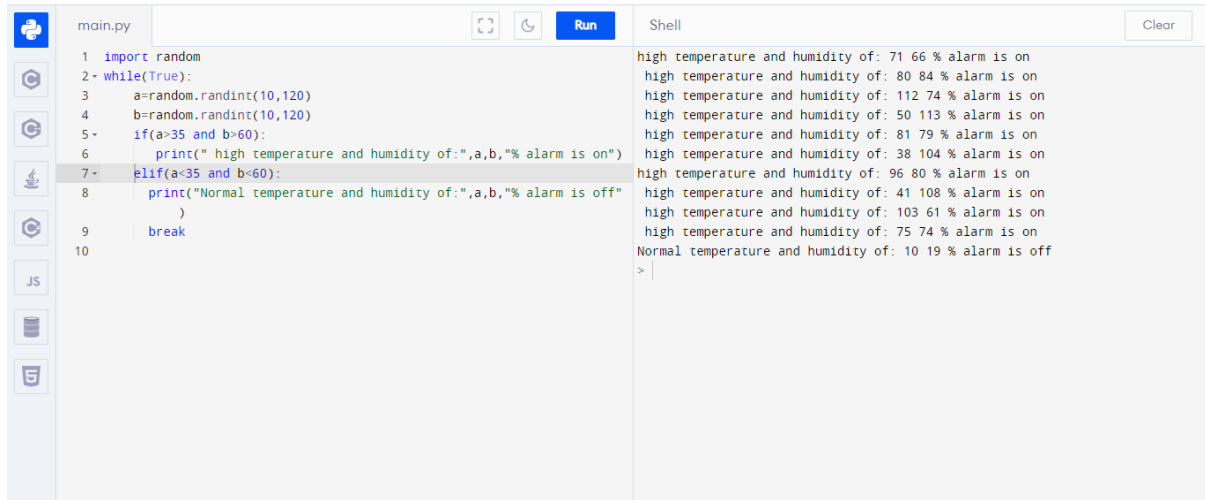
```
            print(" high temperature and humidity of:",a,b,"%  
                    alarm is on")
```

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

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

```
    break
```

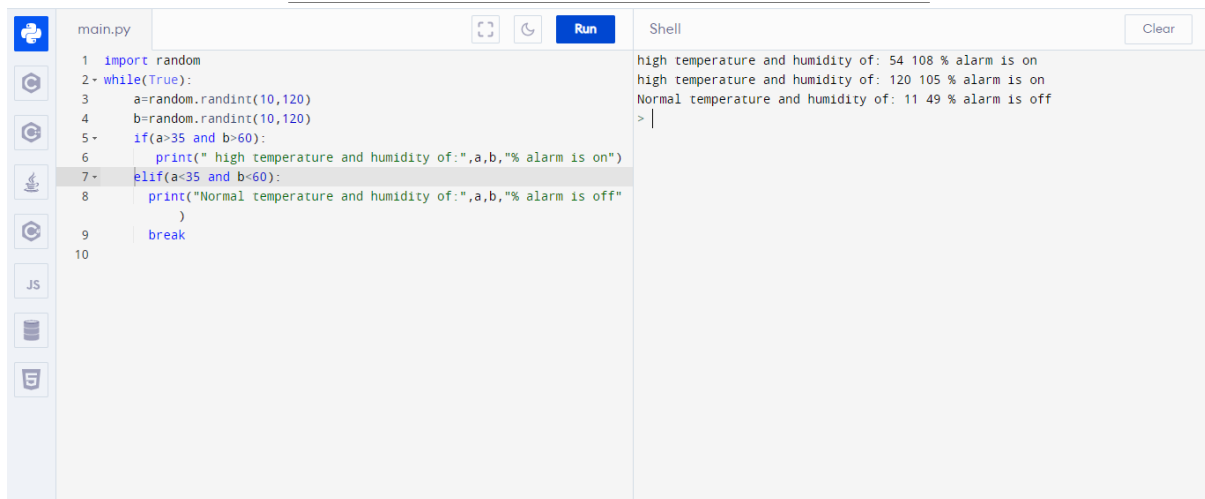
# OUTPUT:



The screenshot shows a code editor with a file named 'main.py'. The code is a Python script that generates random temperature and humidity values and checks if an alarm should be on or off based on specific conditions. The output in the shell shows 10 iterations of these values and the resulting alarm status.

```
1 import random
2 while(True):
3     a=random.randint(10,120)
4     b=random.randint(10,120)
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         )
10        break
```

high temperature and humidity of: 71 66 % alarm is on  
high temperature and humidity of: 80 84 % alarm is on  
high temperature and humidity of: 112 74 % alarm is on  
high temperature and humidity of: 50 113 % alarm is on  
high temperature and humidity of: 81 79 % alarm is on  
high temperature and humidity of: 38 104 % alarm is on  
high temperature and humidity of: 96 80 % alarm is on  
high temperature and humidity of: 41 108 % alarm is on  
high temperature and humidity of: 103 61 % alarm is on  
high temperature and humidity of: 75 74 % alarm is on  
Normal temperature and humidity of: 10 19 % alarm is off  
> |



This screenshot shows the same code editor and script as the first one. The output in the shell shows a different set of 3 iterations of random values and alarm status.

```
1 import random
2 while(True):
3     a=random.randint(10,120)
4     b=random.randint(10,120)
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         )
10        break
```

high temperature and humidity of: 54 108 % alarm is on  
high temperature and humidity of: 120 105 % alarm is on  
Normal temperature and humidity of: 11 49 % alarm is off  
> |