

Assignment-2

Code:

```
import random

While(True):

    temp=random.randint(10,99)

    hum=random.randint(10,99)

if(temp>40 and hum>70):

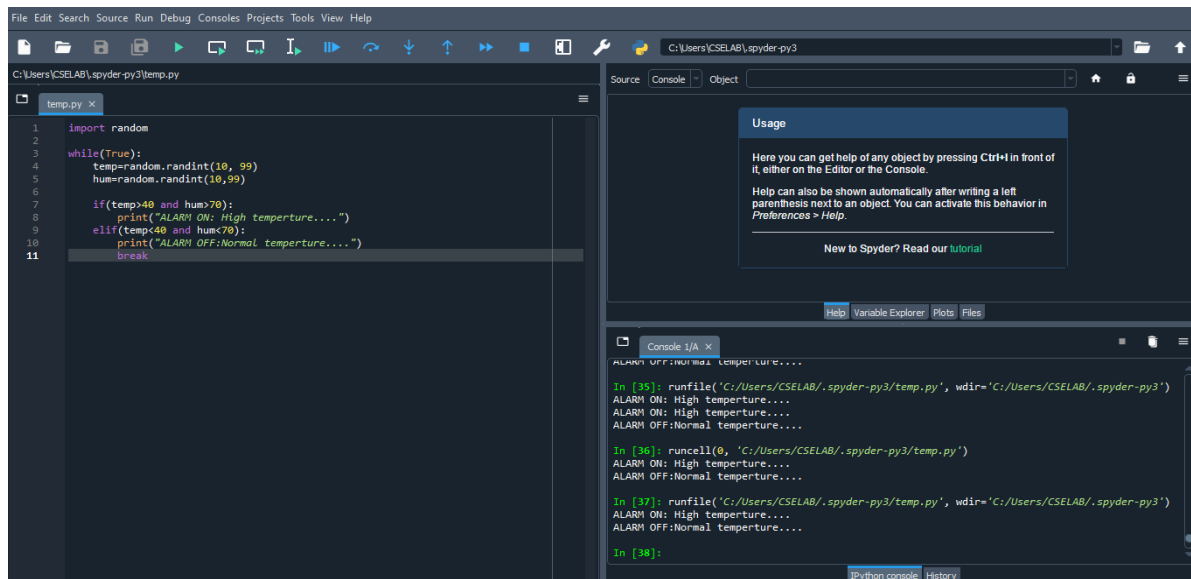
    print("ALARM ON:High temperature....")

elif(temp<40 and hum<70):

    print("ALARM OFF:Normal temperature....")

    break
```

output:



The screenshot displays the Spyder Python IDE interface. The editor window on the left contains a Python script named 'temp.py' with the following code:

```
1 import random
2
3 while(True):
4     temp=random.randint(10, 99)
5     hum=random.randint(10,99)
6
7     if(temp>40 and hum>70):
8         print("ALARM ON: High temperature....")
9     elif(temp<40 and hum<70):
10        print("ALARM OFF:Normal temperature....")
11        break
```

The right-hand pane shows the IPython console with the following output:

```
ALARM OFF:Normal temperature....
In [35]: runfile('C:/Users/CSELAB/.spyder-py3/temp.py', wdir='C:/Users/CSELAB/.spyder-py3')
ALARM ON: High temperature....
ALARM ON: High temperature....
ALARM OFF:Normal temperature....
In [36]: runcell(0, 'C:/Users/CSELAB/.spyder-py3/temp.py')
ALARM ON: High temperature....
ALARM ON: High temperature....
ALARM OFF:Normal temperature....
In [37]: runfile('C:/Users/CSELAB/.spyder-py3/temp.py', wdir='C:/Users/CSELAB/.spyder-py3')
ALARM ON: High temperature....
ALARM OFF:Normal temperature....
In [38]:
```

The console output demonstrates the script's logic, alternating between 'ALARM ON' and 'ALARM OFF' messages based on the random temperature and humidity values generated.