

Assignment-2

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| Team ID | PNT2022TMID41909 |
| Project Name | Signs with Smart Connectivity for Better Road Safety |
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Question:

Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Code:

```
import random
```

```
While(True):
```

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

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

```
if(temp>40 and hum>70):
```

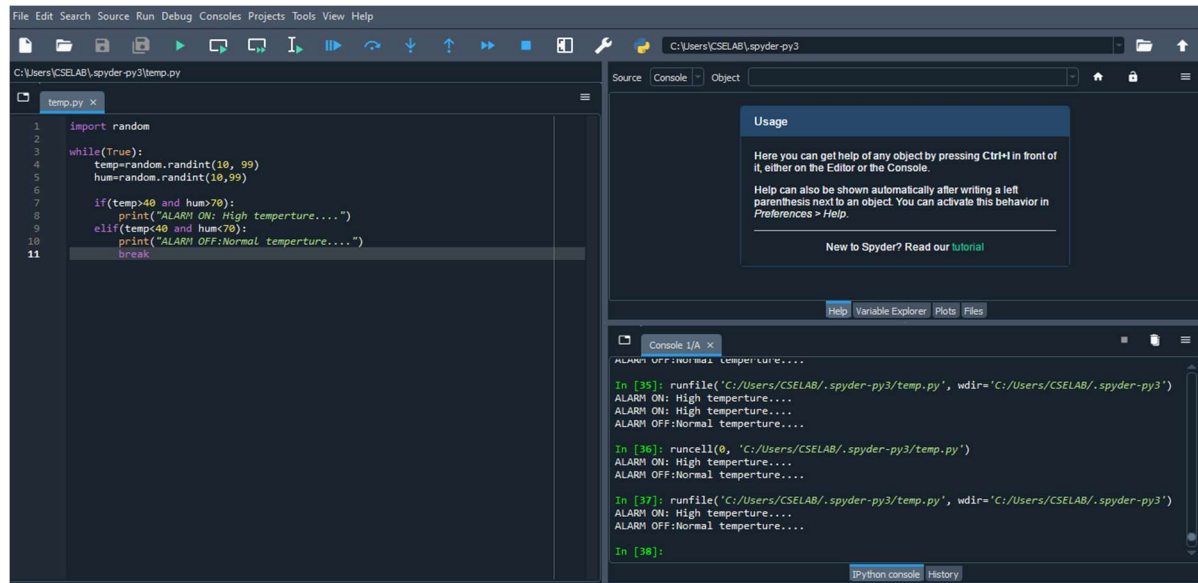
```
    print("ALARM ON:High temperature....")
```

```
elif(temp<40 and hum<70):
```

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

```
    break
```

output:



The screenshot displays the Spyder Python IDE interface. The main editor window on the left contains a Python script named `temp.py`. The script imports the `random` module and enters a `while(True):` loop. Inside the loop, it generates random temperature (`temp`) and humidity (`hum`) values between 10 and 99. It then checks if both are greater than 40. If so, it prints "ALARM ON: High temperture....". If not, it prints "ALARM OFF:Normal temperture....". The loop is broken after the first iteration.

```
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 temperture....")
9     elif(temp<40 and hum<70):
10        print("ALARM OFF:Normal temperture....")
11    break
```

The right-hand pane of the IDE is divided into two sections. The top section, labeled "Usage", provides information on how to access help for objects. The bottom section, labeled "Console I/A X", shows the output of the script execution. It displays the output of three consecutive runs, each showing the "ALARM OFF:Normal temperture...." message.

Console I/A X

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

In [36]: runcell(0, 'C:/Users/CSELAB/.spyder-py3/temp.py')
ALARM ON: High temperture....
ALARM OFF:Normal temperture....

In [37]: runfile('C:/Users/CSELAB/.spyder-py3/temp.py', wdir='C:/Users/CSELAB/.spyder-py3')
ALARM ON: High temperture....
ALARM OFF:Normal temperture....

In [38]:
```