Assignment -2
Python
Programming

Assignment Date	24 September 2022
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Maximum Marks	2 Marks

Question-1:

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

Solution:

```python
import random
temperature= int(input("Enter the
temperature")) humidity=int(input("Enter the
humidity")) print(temperature)

print(humidity)
if
    ((temperature<45)&(humidity<35
    )): print("Temperature is
    normal") print("humidity is
    normal")
elif((temperature>45)&(humidity<35
    )): print("Temperature is High")
    print("humidity is low")
    print("Alarm is ON")
elif((temperature>45)&(humidity>35
)):
    print("Temperature is
    High") print("humidity is
    High")
elif((temperature<45)&(humidity<35)
    ): print("Temperature is low")
    print("humidity is high")
else:
    print("temperature is
    low") print("humidity is
    low")
    print("Alarm is OFF")
```

```
1   import random
2   I empenature= i nt ( z nput ( "Enter the temperature" ) )
3   hum1d1ty =znt (i nput ( "Enter the humidity" ) )
4   print (temperature)
5
&   print (humidity)
•   if ((temperature<45) & (humidity<35)):
8       print ("Temperature is normal")
9       print ("humidity is normal")
i0-  elif((temperature >45) & (humidity<35)):
11      print ("Temperature is High")
12      print ("humidity is low™")
13      print ("Alarm is Ou")
1 • elif((temperature >45) & (humidity >35)):
15      print ("Temperature is High")
15      print ("humidity is High")
```

Ln: 14, Col: 38

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```
Emter the temperature
100
Enter the humidity
20
100
20
Temperature is High
humidity is low

Alarm is ON
```