Assignment -2

Python Programming

Assignment Date	21 September 2022
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Maximum Marks	2 Marks

Question-1:

Build a python code, Assume you 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
temp = round(random.uniform(20,50))
hum = round(random.uniform(10,100))
if (temp>20 and temp<=35) and (hum>10):
  print("Temperature : {}°c".format(temp))
 print("Humidity : {}".format(hum))
 print("Low Temperature")
  print("Alarm Off")
elif(temp>35 and temp<=40) and (hum>10):
  print("Temperature : {}°c".format(temp))
  print("Humidity : {}".format(hum))
  print("High Temperature")
 print("Alarm On")
elif(temp>40 and temp<=50) and (hum>10):
  print("Temperature : {}°c".format(temp))
 print("Humidity : {}".format(hum))
 print("very High in Temperature")
  print("Alarm On")
```

PROGRAM:

OUTPUT:

```
main.py

1 import random
2 temp = round(random.uniform(10,100))
4
4
5 if (temp>20 and temp<=35) and (hum>10):
print("Temperature : {}^oc".forma (temp))
print("Mumidity : {}".forma (hum))

8 print("Low Temperature")
print("Humidity : {}^oc.forma (temp))
10 elif(temp>35 and temp<40) and (hum>10):
print("Humidity : {}^oc.forma (temp))
12 print("Humidity : {}^oc.forma (temp))
13 print("High Temperature")
print("High Temperature")
14 print("Alarm On")
15 elif(temp>40 and temp<50) and (hum>10):
print("Temperature : {}^oc".forma (temp))
print("Impurature : {}^oc".forma (temp))
print("Impurature : {}^oc".forma (temp))
print("Impurature : {}^oc".forma (temp))
print("Very High in Temperature")
print("Very High in Temperature")

19 print("Alarm On")

Input
Temperature : 24°c
Humidity : 23
Low Temperature
Alarm Off
```