Assignment -2
Python Programming

Assignment Date	27 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.

Solution:

```python
import time

i=0

while (i<=1440):

  i=i+1

  time.sleep(10)

  import random

  temp=random.randint(0,30)

  humid=random.randint(1,100)

  if temp<=15:

    print(temp,"degree,the temperature is low")

  elif temp<=25:

    print(temp,"degree,the temperature is normal")

  else:

    print(temp,"degree,the temperature is high,Alarm is ON")

  if humid<=50:

    print(humid,"the humidity is low")

  elif humid<=80:

    print(humid,"the humidity is normal")

  else

print(humid,"the humidity is high")
```

```
import time
i=0
while (i<=1440):
    i=i+1
    time.sleep(10)
    import random
    temp=random.randint(0,30)
    humid=random.randint(1,100)
    if temp<=15:
        print(temp,"degree,the temperature is low")
    elif temp<=25:
        print(temp,"degree,the temperature is normal")
    else:
        print(temp,"degree,the temperature is high,Alarm is ON")
    if humid<=50:
        print(humid,"the humidity is low")
    elif humid<=80:
        print(humid,"the humidity is normal")
    else:
        print(humid,"the humidity is high")
```

```
94 the humidity is high
3 degree,the temperature is low
43 the humidity is low
19 degree,the temperature is normal
40 the humidity is low
14 degree,the temperature is low
1 the humidity is low
7 degree,the temperature is low
77 the humidity is normal
12 degree,the temperature is low
39 the humidity is low
1 degree,the temperature is low
45 the humidity is low
16 degree,the temperature is normal
31 the humidity is low
18 degree,the temperature is normal
78 the humidity is normal
3 degree,the temperature is low
73 the humidity is normal
21 degree,the temperature is normal
7 the humidity is low
6 degree,the temperature is low
38 the humidity is low
```