

Assignment – 2

Python programming

Assignment Date	27 September 2022
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Student Roll Number	910019106019
Maximum marks	2 Marks

Question-2:

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?

Solution:

```
import random
import time
while(1):
    temp=random.randint(10,200)
    humidity=random.randint(10,200)
    if temp>150:
        print("ALERT!! detected temperature :"+str(temp)+".c")
    if humidity<100:
        print("the humidity values:"+str(humidity)+"%")
    time.sleep(2)
```

Kavin.py - C:/Users/moovi/Kavin.py (3.7.0)

File Edit Format Run Options Window Help

```
import random
import time
while(1):
    temp=random.randint(10,200)
    humidity=random.randint(10,200)
    if temp>150:
        print("ALERT!! detected temperature :"+str(temp)+".c")
    if humidity<100:
        print("the humidity values:"+str(humidity)+"%")
        time.sleep(2)
```

Python 3.7.0 Shell

File Edit Shell Debug Options Window Help

```
ALERT!! detected temperature :180.c
ALERT!! detected temperature :151.c
the humidity values:72%
ALERT!! detected temperature :154.c
the humidity values:11%
ALERT!! detected temperature :175.c
the humidity values:33%
ALERT!! detected temperature :182.c
ALERT!! detected temperature :158.c
the humidity values:57%
ALERT!! detected temperature :173.c
ALERT!! detected temperature :178.c
the humidity values:86%
ALERT!! detected temperature :184.c
the humidity values:62%
ALERT!! detected temperature :158.c
ALERT!! detected temperature :153.c
the humidity values:63%
ALERT!! detected temperature :177.c
ALERT!! detected temperature :159.c
ALERT!! detected temperature :154.c
the humidity values:75%
ALERT!! detected temperature :184.c
ALERT!! detected temperature :175.c
the humidity values:99%
ALERT!! detected temperature :171.c
ALERT!! detected temperature :156.c
the humidity values:12%
ALERT!! detected temperature :157.c
ALERT!! detected temperature :151.c
ALERT!! detected temperature :167.c
the humidity values:12%
ALERT!! detected temperature :165.c
ALERT!! detected temperature :165.c
ALERT!! detected temperature :168.c
the humidity values:59%
ALERT!! detected temperature :151.c
ALERT!! detected temperature :153.c
ALERT!! detected temperature :164.c
the humidity values:66%
```