

Assignment – 2

Python programming

Assignment Date	27 September 2022
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Student Roll Number	910019106004
Maximum marks	2 Marks

Question-1:

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(0,200)
```

```
    humidity=random.randint(0,200)
```

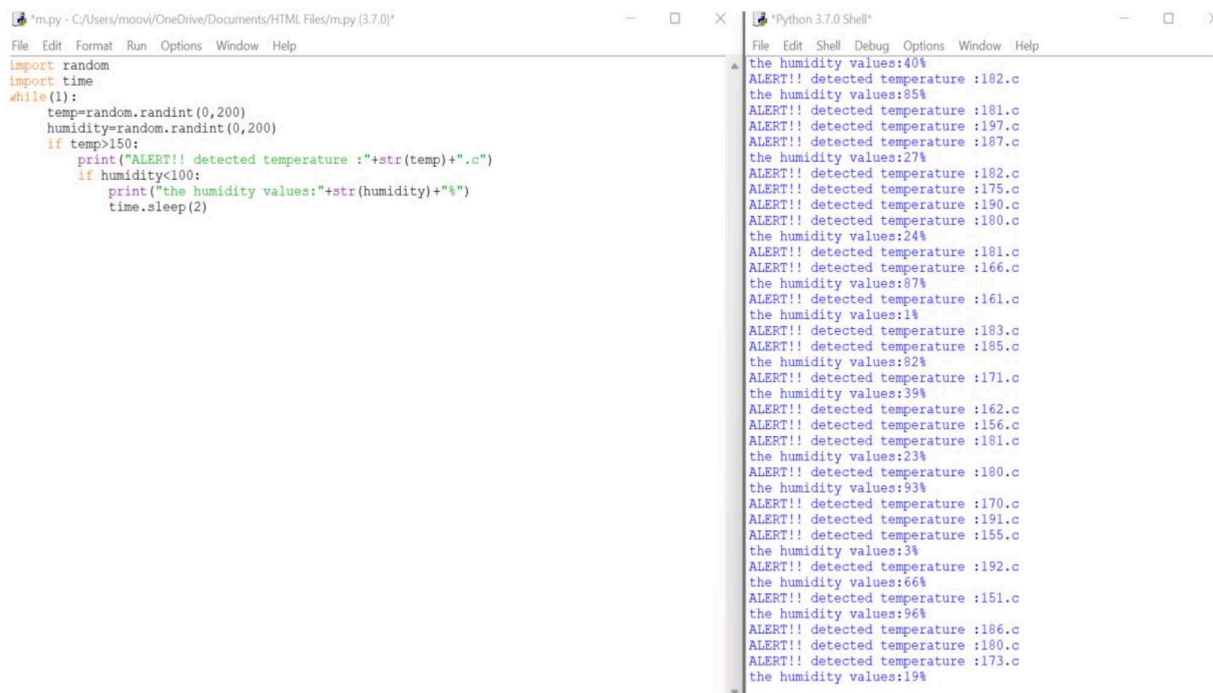
```
    if temp>150:
```

```
        print("ALERT!! detected temperature :"+str(temp)+".c")
```

```
    if humidity<100:
```

```
        print("the humidity values:"+str(humidity)+"%")
```

```
        time.sleep(2)
```



```
m.py - C:/Users/moovi/OneDrive/Documents/HTML Files/m.py (3.7.0)
File Edit Format Run Options Window Help
import random
import time
while(1):
    temp=random.randint(0,200)
    humidity=random.randint(0,200)
    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
the humidity values:40%
ALERT!! detected temperature :182.c
the humidity values:85%
ALERT!! detected temperature :181.c
ALERT!! detected temperature :197.c
ALERT!! detected temperature :187.c
the humidity values:27%
ALERT!! detected temperature :182.c
ALERT!! detected temperature :175.c
ALERT!! detected temperature :190.c
ALERT!! detected temperature :180.c
the humidity values:24%
ALERT!! detected temperature :181.c
ALERT!! detected temperature :166.c
the humidity values:87%
ALERT!! detected temperature :161.c
the humidity values:1%
ALERT!! detected temperature :183.c
ALERT!! detected temperature :185.c
the humidity values:82%
ALERT!! detected temperature :171.c
the humidity values:39%
ALERT!! detected temperature :162.c
ALERT!! detected temperature :156.c
ALERT!! detected temperature :181.c
the humidity values:23%
ALERT!! detected temperature :180.c
the humidity values:93%
ALERT!! detected temperature :170.c
ALERT!! detected temperature :191.c
ALERT!! detected temperature :155.c
the humidity values:3%
ALERT!! detected temperature :192.c
the humidity values:66%
ALERT!! detected temperature :151.c
the humidity values:96%
ALERT!! detected temperature :186.c
ALERT!! detected temperature :180.c
ALERT!! detected temperature :173.c
the humidity values:19%
```