

Assignment -1
Python Programming

Assignment Date	27 September 2022
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Student Roll Number	621319106092
Maximum Marks	2 Marks

Question-1:

Build a python code, Assume you get temperature and humidity values and write a condition to continuously detect alarm in case of high temperature.

Solution:

```
import random
```

```
while True:
```

```
    temp=random.randint(1,100)
```

```
    humidity=random.randint(1,100)
```

```
    temperature=-
```

```
    (((temp/1024)*5)-0.5)*100;
```

```
    print("humidity is:{}
```

```
    ".format(humidity))
```

```
    print("Temperature is :{}
```

```
    celcius".format(temperature))
```

```
    if(humidity<=23):
```

```
        print("normal humidity  
value")
```

```
    else:
```

```
        print("humidity value  
greater than normal")
```

```
        if(temperature<=20):
```

```
            print("normal")
```

```
        else:
```

```
            print("hazard detected")
```

```
assignment2.py - C:\Users\USER\AppData\Local\Programs\Python\Python310\assignment2.py (3.10.7)
File Edit Format Run Options Window Help
import random

while True:
    temp=random.randint(1,100)
    humidity=random.randint(1,100)
    temperature=-(((temp/1024)*5)-0.5)*100;
    print("humidity is:{}".format(humidity))

    print("Temperature is :{} celcius".format(temperature))

    if(humidity<=23):
        print("normal humidity value")
    else:
        print("humidity value greater than normal")
    if(temperature<=20):
        print("normal")
    else:
        print("hazard detected")

normal
humidity is:29
Temperature is :42.67578125 celcius
humidity value greater than normal
hazard detected
humidity is:29
Temperature is :7.03125 celcius
humidity value greater than normal
normal
humidity is:14
Temperature is :24.609375 celcius
normal humidity value
hazard detected
humidity is:8
Temperature is :41.69921875 celcius
normal humidity value
hazard detected
humidity is:19
Temperature is :20.21484375 celcius
normal humidity value
hazard detected
humidity is:29
Temperature is :30.95703125 celcius
humidity value greater than normal
hazard detected
humidity is:65
Temperature is :36.328125 celcius
humidity value greater than normal
hazard detected
humidity is:63
Temperature is :2.63671875 celcius
humidity value greater than normal
normal
humidity is:59
Temperature is :8.984375 celcius
humidity value greater than normal
normal
humidity is:63
Temperature is :1.66015625 celcius
humidity value greater than normal
normal
humidity is:20
Temperature is :26.07421875 celcius
normal humidity value
hazard detected
humidity is:88
```