

Assignment -2

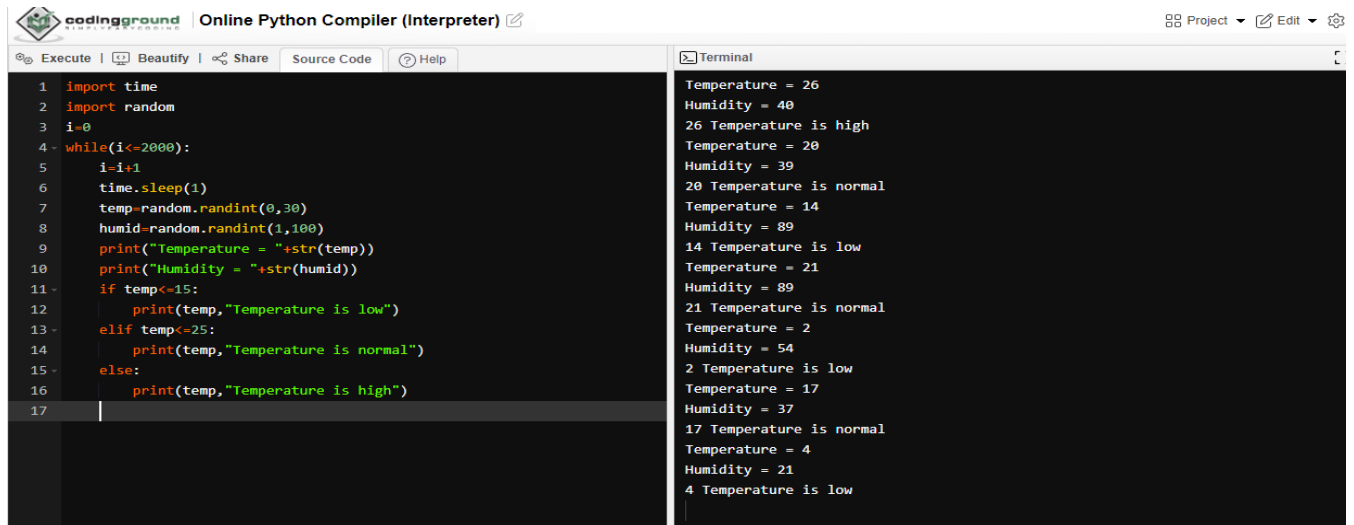
SMART SOLUTIONS FOR RAILWAYS

Assignment Date	26 September 2022
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Maximum Marks	2 Marks

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.

```
import time
import random
i=0
while(i<=2000):
    i=i+1
    time.sleep(1)
    temp=random.randint(0,30)
    humid=random.randint(1,100)
    print("Temperature = "+str(temp))
    print("Humidity = "+str(humid))
    if temp<=15:
        print(temp,"Temperature is low")
    elif temp<=25:
        print(temp,"Temperature is normal")
    else:
        print(temp,"Temperature is high")
```

OUTPUT:



The screenshot shows the 'codingground' online Python compiler interface. The left pane contains a Python script that generates random temperature and humidity values and prints them with status messages. The right pane shows the terminal output of the script.

```
1 import time
2 import random
3 i=0
4 while(i<=2000):
5     i=i+1
6     time.sleep(1)
7     temp=random.randint(0,30)
8     humid=random.randint(1,100)
9     print("Temperature = "+str(temp))
10    print("Humidity = "+str(humid))
11    if temp<=15:
12        print(temp,"Temperature is low")
13    elif temp<=25:
14        print(temp,"Temperature is normal")
15    else:
16        print(temp,"Temperature is high")
17
```

Terminal Output:

```
Temperature = 26
Humidity = 40
26 Temperature is high
Temperature = 20
Humidity = 39
20 Temperature is normal
Temperature = 14
Humidity = 89
14 Temperature is low
Temperature = 21
Humidity = 89
21 Temperature is normal
Temperature = 2
Humidity = 54
2 Temperature is low
Temperature = 17
Humidity = 37
17 Temperature is normal
Temperature = 4
Humidity = 21
4 Temperature is low
```