

Assignment -2

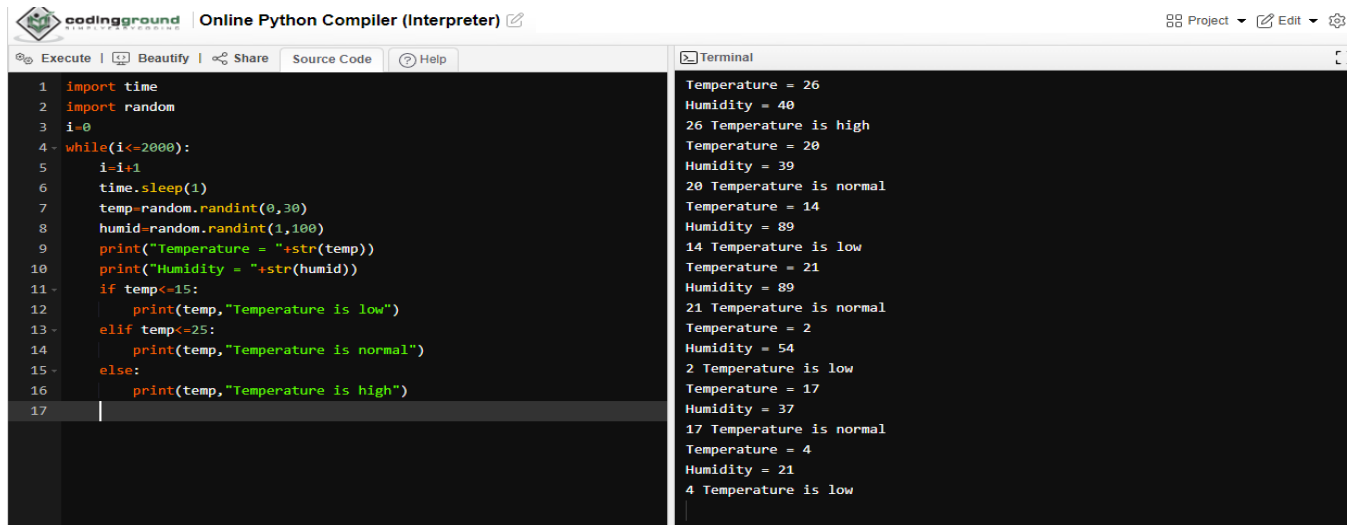
SMART SOLUTIONS FOR RAILWAYS

Assignment Date	09 October 2022
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Maximum Marks	2 Marks

Build a python code, Assume 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 (Interpreter) interface. The left pane contains Python code that generates random temperature and humidity values and prints them with status messages. The right pane shows the terminal output of this code.

```
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
```