

Assignment -2

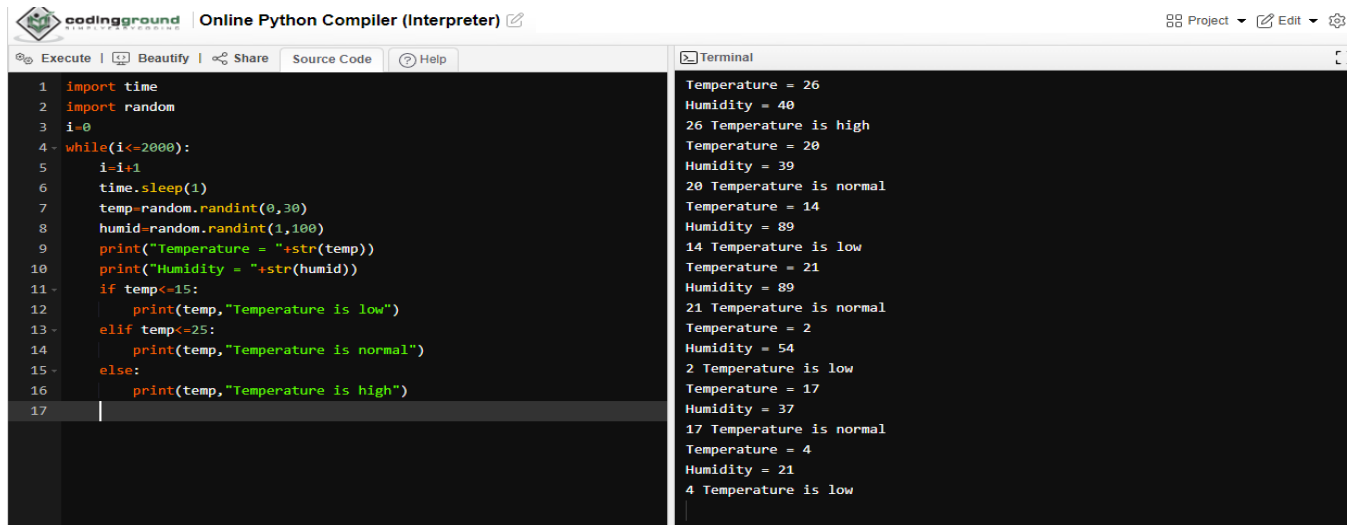
SMART SOLUTIONS FOR RAILWAYS

Assignment Date	26 September 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 interface. The top bar includes the logo, the title 'Online Python Compiler (Interpreter)', and navigation links for 'Project', 'Edit', and 'Settings'. Below the bar is a menu with 'Execute', 'Beautify', 'Share', 'Source Code', and 'Help'. The main editor area on the left contains a Python script that generates random temperature and humidity values and prints them with status messages. The terminal area on the right displays the output of the script, showing 17 iterations of random data and status checks.

```
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
```

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