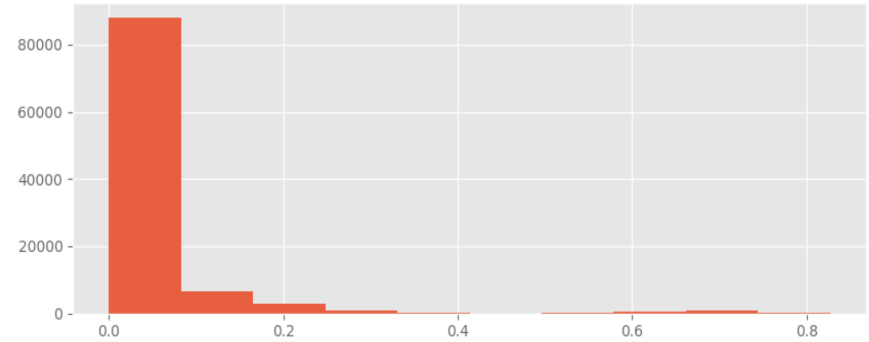
1.Introduction

The overall approaches for testing project can be divided to three types. The first type is testing three main functional requirements. The second type is testing GUI functions. The last type is testing whole project.

2. Test Report

2.1 Unit Test:

Test case1: Be able to display the error rate histogram.
Input: Value of running time
Expected Output: Error rate histogram
Test Input: 100000
Test Output:



Test output is expected output. Therefore, unit test successfully.

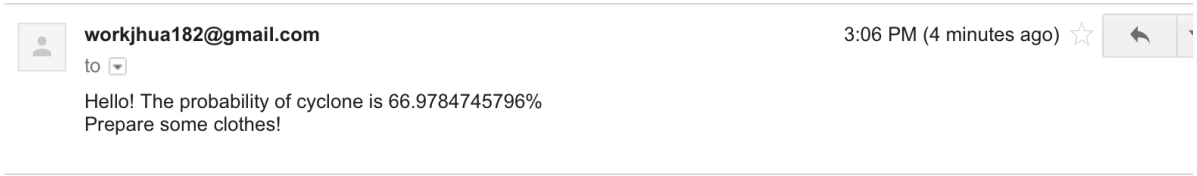
Test case2: Be able to display the probability of cyclone and corresponding suggestion.
Input: wind speed and temperature
Expected Output: the probability of cyclone and corresponding suggestion

Test Input: wind speed = 63 and temperature = 30
Test Output:

Test output is expected output. Therefore, unit test successfully.

Test case3: Be able to send email to user
Input: Email address
Expected Output: Sending email successfully.

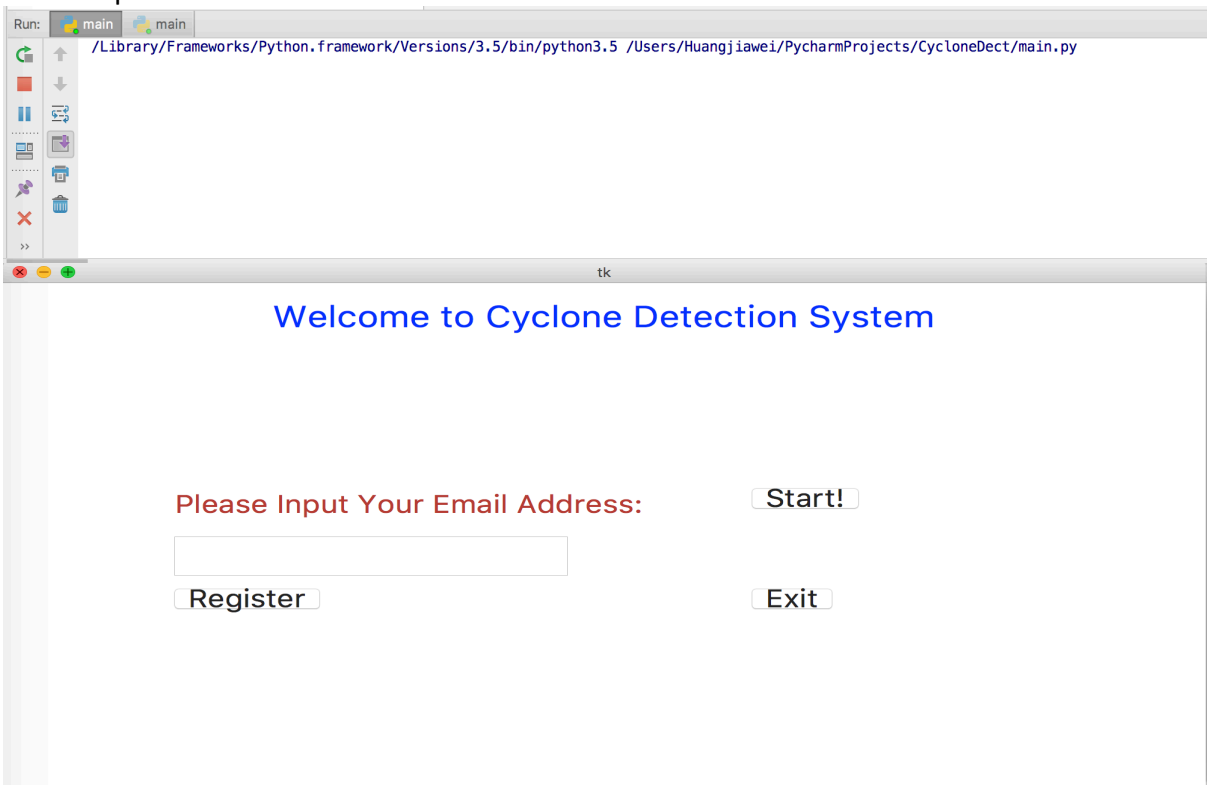
Test Output:



Test output is expected output. Therefore, unit test successfully.

Test case4: GUI run correctly and successfully
Input: program of GUI
Output: Console does not display error.

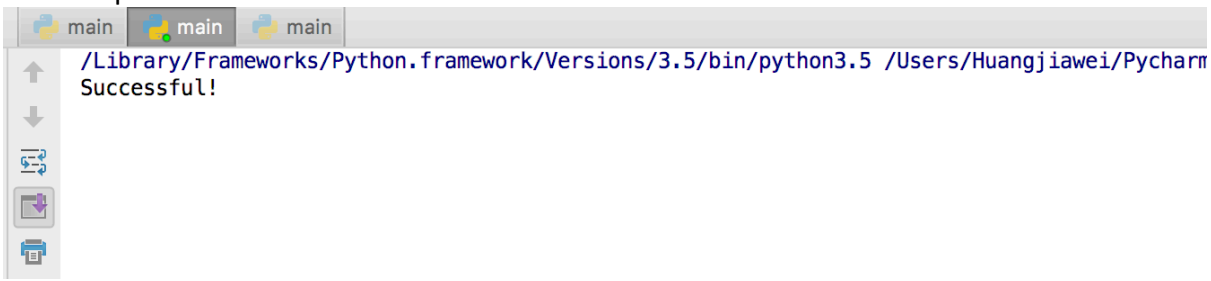
Test Output:



Test output is expected output. Therefore, unit test successfully.

2.2 System Testing
Input: Entire Program
Expected Output: Console does not display the error and display “Successful ”

Test Output:



Test output is expected output. Therefore, system test successfully.

3. Conclusion:

Through unit tests and system test, the performance of system is pretty good, so system can normally run and get three main functional outputs.