Phase 5: Testing

Testing is a process of executing the program with the intent of finding errors. This process usually involved 4 different steps, i.e., 1. module testing 2. integration testing 3. validation testing and system testing. Hence, you will have to test your program according to these steps. However, since we cannot test all at this time, we will do selective testing, i.e., selecting 1 or more modules for testing purposes.

V Testing

1. Introduction
   1.1 Purpose – Put here why you wrote this document including when, who was involved and contributed what etc.
   1.2 Definitions, Acronyms or Abbreviations – Any definition, acronyms or abbreviations used in this document.
   1.3 References – Any references used in this document
   1.4 Overview – Write about the remainder of this document.

2. Module Testing
   2.1 Module name – Choose any module of size between 20 and 35 lines of executable code
   2.2 Independent Path Testing
      Draw the Flow Graph, determine the independent paths, prepare test cases and compare the results.
      2.2.1 Flow Graph and Independent paths
      2.2.2 Testcases and Test results – compare the test results with the expected values
         a) Testcase b) Expected Value c) Test Results d) Conclusion: Passed/Not Passed
   2.3 Black Box Testing
      Prepare test cases based on ECs of an input variable and compare the output value with expected value.
      2.3.1 EC
      2.3.2 Test Cases and Test results – same as above

3. Validation Testing
   Choose any one of the requirements in the Requirement Analysis and test it based on the black-box method.
   3.1 Requirement name
   3.2 EC
   3.3 Test Cases and Test Results – same as above