

# Problem 7: Testing

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## Testing of Function F4: $\Gamma$

### 1 Introduction

The function provided for the testing purpose is  $\Gamma$  gamma function. The team member has provided all the required documents to perform the testing of a function. Two tests are performed:

- A. Manual Testing
- B. Running Unit test cases

#### 1.1 Test Step

1. The source code is imported into Eclipse and compiled.
2. **Manual Testing:** The program is run for different inputs based on requirements and results were verified manually by entering inputs by running the program code.
3. **Unit Testing:** The test program is run and test results are verified.

#### 1.2 Test Results: Manual Testing

Test Case	Description	Result
TC1	Input cannot be zero	PASS
TC2	Input cannot be a negative integer	PASS
TC3	A valid positive integer	PASS
TC4	Input is not a half-integer value	PASS
TC5	Input is half-integer value	PASS

#### 1.3 Test Results: Unit Testing

Test Case	Description	Result
TC1	Input cannot be zero	PASS
TC2	Input cannot be a negative integer	PASS
TC3	A valid positive integer	PASS
TC4	Input is not a half-integer value	PASS
TC5	Input is half-integer value	PASS

## 1.4 Conclusion

It is evident from the above tables that the program is bug free. The comments provided adequate information for the tester. The test cases have passed in both unit testing and manual testing.