Applied Programming I

Project #1   **Nov. 18, 2009**

Ver. 1.0

Prepare a VF computer program to implement the calculation of a ship's load line, applying the recommendations specified by IMO.   The computer program must have the following characteristics:

- Read from a separate text file all the required information (ship, superstructures dimensions, description of sheer curve, etc.).
- Write the intermediate (basic freeboard, corrections, etc.) and final result (Required freeboard and corresponding draft).
- Each rule must be implemented as a separate subroutine.
- The code must include enough comments that allows the developer future improvements.

The report must consist of a User's manual, which usually includes:

- Index of content.
- General description of the program.
- Definition of the terminology used.
- Description of the variables that need to be read (units).
- Description of the results.
- Example of the application of the program, which correspond to a ship which will be assigned by the instructor.

The grade will be assigned according to:

- Quality of written report.
- Quality of oral presentation (15 minutes).
- Accuracy of results.

Do not forget: you must report the number of hours employed to complete the project.

jrml/2009