## What you are required to do

There are three parts to the assignment that <u>must be attempted</u>.
1) Program implementation
   a) You must create a program that provides some, or all of the functionality specified in the **Library system user requirements** provided on page 3. The maximum mark available depends on how much of the functionality you can successfully produce.
2) Class diagram
   a) use the Violet UML editor software provided to create a class diagram which accurately describes the implementation.
3) Javadoc documentation
   a) use the documentation tool in BlueJ to produce a set of web pages that accurately describes the program implementation.

This part is optional but students can gain extra credit by creating one or more test classes.
4) Testing
   a) create an additional class or classes for the purpose of testing the library functionality;
   b) this class(es) will automatically create library, member and book objects;
   c) this class will have methods that can be executed from the BlueJ interface to test aspects of the implementation e.g. adding a book, removing a member etc.
   d) Javadoc documentation will be provided for the class(es)

## Marking

The mark awarded will be based on the level of functionality provided **and** the quality of the program and its documentation. For instance a submission of poor quality may get a lower mark than a program with less functionality but is of higher quality.

## Referencing

If you have used a piece of code that you have not written or used ideas from online forums, please ensure that you properly cite the reference from where you obtained the code. This will prevent you being accused of plagiarism. Also please remember that we will be assessing your ability to develop and write the programme.

## Assignment submission

Your assignment must be submitted by the date shown on the front page of this assignment brief with the standard submission form available in student services or outside room B1-05.

You must submit
1)      A zip folder to the Moodle Submission link clearly identified with your name and student ID number.

| In the Zip folder | Check |
|---|---|
| Your class diagram for the library system created with Violet UML | |
| If you have implemented any additional functionality; a single page Word document describing the extra features. | |
| Your completed BlueJ project including the Javadoc documentation | |

2)      With your Zip folder - this assignment brief (in its entirety) signed by you and dated on the front page. Also you must identify the functionality you have implemented on the feedback sheet.

Failure to submit all these **will** result in a significant loss of marks.