**Assessment Parameters**

* Solution Completeness (all requirements addressed) – 40 %
* Working solution for each requirement – 25 %
* Comments – 10%
* Coding standards – 25 %
* Code with compilation errors will not be considered for assessment.

**Q. 1)** Develop Book Management System for the library. Create the class library which will have class Books with the following details :

Book ID, Book Name, ISBN No, Price, Publisher, Number of Pages, Language, LoT, Summary

* Write method for accepting Book details.
* If user do not provide any value for Language and LoT. Then use the optional values for these as follows:

Language – “English”, LoT – “Technical”

* Create a menu based console application to make the entry of books, display books, delete the book based on Book ID.
* Store the book details in collection. **[35 Marks]**

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| **Validations** | |
| 1. | Book ID, Book Name cannot be blank |
| 2. | Book ID should have 5 digits only |
| 3. | LoT can have values from the below list only : “.NET”, “Java”, “IMS”, “V&V”, “BI”, “RDBMS” |
| **Exception Handling** | |
| 1. | Write a custom exception class to handle the above exceptions |

**Marks Distribution**

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| Validations | 8 Marks |
| Exception Handling | 5 Marks |
| Book information storing in collection properly | 8 Marks |
| Displaying Book information from collection | 5 Marks |
| Deleting Book based on Book ID | 4 Marks |
| Coding Standards, Naming Conventions and Commenting | 5 Marks |