

**Department of Electrical & Computer Engineering**

**North South University**

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**Assignment 1**

**Submitted by: Kazi Sakib Ahmad**

**ID: 1510702042**

**Course: CSE427**

**Section: 01**

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**Submitted to: Mr. Shaikh Shawon Arefin Shimon**

**Lecturer, Department of ECE,**

**North South University**

**Ans. To the Question (a)**

I have tried to do implement the GenericStack class using Test Driven Development (TDD). In order to do TDD for implementing I had to use a wide range of variables to write test cases. As it was asked to implement generic stack so I have written test cases by following input space partition and used variables from following data types:

1. Positive integers
2. Negative integers
3. Character variables
4. Strings and set of strings
5. Positive floating point numbers
6. Negative floating point numbers

To implement GenericStack class I was asked to must implement assuming the following method signatures:

1. public GenericStack();
2. public void pusg (object X)
3. public Object pop();
4. public Boolean isEmpty();

Finally I ended up implementing the following methods also for implementing the usability of GenericStack class

1. public int size() &
2. public Object topItem()

I have tried Unit Testing and Input Space Partitioning as a part of TDD.

**Ans. To the Question (b)**