COMSATS University Islamabad, Abbottabad Campus Department of Computer Science

**Assignment No. 2 Object Oriented Programming**

**Class: BSE 3 A & B Total Marks: 20**

# Dead Line: 15th Oct. 2021

**Question 1**

**Objective:**

The Assignment is designed for the students with some general menu driven programs for better understanding of JAVA that will be more beneficial for the students and to meet the objective of the course.

**Scope:**

This will be helpful for the students to adapt the mini-project level approach.

You should develop test cases (of screen captures) to show successful running of each of the option in this program.

Define a class called **LineType** with following field:

**Line** : that can store a maximum 80 characters

Declare an array called **Page** that can store up to 25 **LineType** above

Develop a program in JAVA to manipulate **Page** above to allow the user to perform the following operations.

# Main Menu

[1]. Enter Lines of Text [2]. Retrieve all Lines

[3]. Retrieve a particular line of Text [4]. Delete a particular line of Text

[5]. Character and words count in a particular line of Text Choice:

If option **1** is selected

Enter Line #: 1

Enter line (up to max. 80 char): ***This is first line***

Enter Line #: 2

Enter line (up to max. 80 char): ***This is second line***

up to so on……

If option **2** is selected

Line #: 1 This is first line Line #: 2 This is second line up to so on……

If option 3 is selected

Enter Line #: 2 This is second line

If option 4 is selected

Enter Line # to Delete: 1 Line 1 Deleted Successfully

If option 5 is selected

Enter Line # to count characters and words: 3

In Line 3 Total characters are ??? and words are ???