COMSATS University Islamabad, Abbottabad Campus Department of Computer Science

**Assignment No. 1 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.

# Question

You are supposed to write a complete Inventory system program in JAVA. All the parts’ details will be stored/retrieved using **classes, methods, and Arrays of objects**.

Below are the details of Parts:

* PartID : integer
* Description : alphanumeric of 30 character
* Manufacturer Date : 8 character max.
* Quantity : integer
* Price : integer

Perform the following tasks:

**Main Menu**

[1]. Add new Parts [2]. Display all records

[3]. Display a particular record by given the PartID and Modify the existing information [4]. Analysis of record level

[5]. Sales update Report

[6]. Delete all those records having quantity less than 10 [7]. Exit

Please enter your choice: ???

1. **Add New**--- is used to allow the user to enter new record details. ***No duplication of PartID is allowed.***
2. **Display Records—**will display all the records in the list.
3. **Display Particular record** of the given PartID and Modify the record.
4. **Analysis of record level—**Display all records where the quantity on hand is lower than 50 in the stock.
5. **Sales update—**ask the user to enter the PartID to be sold. Search the PartID in the list and when found ask the user Quantity to be sold. If the quantity to be sold is greater than quantity on hand, please display an error message, otherwise update the record accordingly and display the sales report.