

CENTRE FOR DEVELOPMENT OF ADVANCE COMPUTING
Advance Computing Training School

Course Name: PG Diploma in Advanced Computing

Batch: Sept 2021

Module Name: MS.NET

Date: 23 Feb 22

Student Name:

Max Marks: 40

Roll No:

Duration:

Q.1.

[30 Marks]

Write a class called as Item with following members:

Data Members:

ID

CostPerUnit

Qty

Member Function:

SellingPrice //will return the selling price of the item

//You can give necessary member function for the above class according to need.

Write a class called ShoppingCart with following specification:

- 1) You should be able to add Item to this cart
- 2) Cart will have at least one member function called CartPrice which will return cart price.
- 3) If cart price is more than 50,000 then give 5% discount on that cart.
- 4) If cart price is more than 1,00,000 then give 10% discount on that cart.
- 5) Overload [] operator for ShoppingCart to get the Item object.

//You can give necessary member function for the above class according to need

Question: 1

Marks: 15

Create C# application which produces a sequence of the uppercase and lowercase versions of each word in the given array using LinQ.

Given array is `string[] words = { "aPPLE", "BlUeBeRrY", "cHeRry", "BlackBeRrY", "OrAnGE" };`

Output should be

Uppercase: APPLE, Lowercase: apple

Uppercase: BLUEBERRY, Lowercase: blueberry

Uppercase: CHERRY, Lowercase: cherry

Uppercase: BLACKBERRY, Lowercase: blackberry

Uppercase: ORANGE, Lowercase: orange

Evaluation of Lab Exam should be based on the following criteria:

Criteria	Details	Max Marks	Marks Obtain
Algorithm	Documentation of Algorithm and Flowchart	2	
	Program adheres to the algorithm and flowchart	2	
Efficiency	Program is using only the required number of variables /conditions/loops/pointers etc and is optimal	2	
Correctness	The program produces desired output for a given input	20	
	The program handles all valid and Invalid inputs		
Software Engineering Principles	The program has meaning variable/function names	2	
	The program is commented properly (At least 20% of the code should be commented)	2	
Viva		10	
Total Marks		40	