**Assignment 06: Single Dimensional Arrays**

**Last date of Submission: 10th week by 6:00 p.m**

How to submit your assignment?

* Last date of submission is 10th week by 6:00 p.m (i.e the week after mids)
* Submit on email addresses (Teacher and TA both) provided on the facebook group.
* The subject of your email should contain your class id, studentd id, assignment number (in this case A#6) and Name, otherwise assign will NOT be considered.
* Copy and paste all your code in one word file, save that file with your StdID\_A6.doc

**Question#01:** You are to take integer range from user and let it the length for array.Now, run a loop on it, in each iteration, you have to ask user for input… assign/copy the value given by user into array. After populating array (taking input) with user-defined values you have to give result:

**Task01:** Sum of all values

**Task02:**Average of all values

**Task03:**Highest number in array

**Task04:**Lowest number in array

**Task05:** Number of positive numbers in array

**Task06:**Number of negative number in array

**Task07:**Print all of the values in array concatenated with comma and reverse in order

**\* Part A:** make a separate program for every part above.

**\* Part B:** make a single program that caters all parts above just in one loop.

Suppose I give range: 5

Input 1: 10

Input 2: 22

Input 3: -18

Input 4: -13

Input 5: 30

Sum of all values: 31

Average of all values: 6.2

Highest number in array: 30

Lowest number in array: -18

Number of positive numbers in array: 3

Number of negative number in array: 2

Reverse order: 30, -13, -18, 22, 10

**Question#02:** Take a string array that contains names of your subjects (subjectArray). Take another integer array of same length (marksArray). Populate subjectArray with user-defined values, so with the marksArray. Now Print mark sheet: You can take individual inputs like, name of student, date of birth, gender so on and so forth.

**Question#03:** Take an integer value i.e. number of elements. Populate two different arrays up to that range with user-defined values. Now do following tasks BUT results of tasks have to be stored/copied in other array(s):

**Task 01:** Print Sum of adjacentindexes’values

**Task 02:** Print Difference (minus) of adjacent indexes’values

**Task 03:** Print Product (multiplication) of adjacentindexes’ values

**Task 04:** Print Ratio (division) of adjacentindexes’ values

**Task 05:** One by one check out values in result array is even or odd?

**\* Part A:** make a separate program for every part above.

**\* Part B:** make a single program that caters all parts above just in one loop.

For example, suppose I give range: 5

Input 1 for array 1: 10

Input 2 for array 1: 22

Input 3 for array 1: -18

Input 4 for array 1: -13

Input 5 for array 1: 30

Input 1 for array 2: 15

Input 2 for array 2: 21

Input 3 for array 2: 8

Input 4 for array 2: -3

Input 5 for array 2: 15

Sum of values at adjacent indexes:

10 + 15 = 25

22 + 21 = 43

-18 + 8 = -10

-13 + -3 = -16

30 + 15 = 45

Hint: sumResult 1 🠘 input 1 of array 1 + input 1 of array 2