Class: SYBCA SEM-4
Subject: Data Structure Lab
Faculty Name: Ami D. Trivedi

Practice Assignment – 1

Instructions for writing programs:

1. Write the short definition of program at the beginning of the program in comment.
2. Write the program with proper indentation, formatted input and formatted output.
3. Short program definition must be displayed before input process when you run your program.
4. Before input and output, message must be displayed indicating beginning of input and output.
5. Array element number with an appropriate message must be displayed for input and output.

1. Write a program that will read n elements in one dimensional array. Print all the numbers as well as average of all numbers as an output.

2. Write a program that will read n elements in one dimensional array. Find out the total number of even elements in the array. Print all elements and total number of even elements.

3. Write a program that will read n elements in one dimensional array. Find out the total number of odd elements in the array. Print all elements and total number of odd elements.

4. Write a program that will read n elements in one dimensional array. Find out the total number of even elements and odd elements in the array. Print all elements, total number of odd elements and total number of even elements.

5. Write a program that will read n elements in one dimensional array. Find out and print the total number of elements having value greater than 10.

6. Write a program to input n values from the user. Store them in array and print the array in reverse order.

7. Write a program that will read n elements in one dimensional array. Find out the total number of positive elements in the array. Print all elements and total number of positive elements.

8. Write a program that will read n elements in one dimensional array. Find out the total number of negative elements in the array. Print all elements and total number of negative elements.

9. Write a program that will read n elements in one dimensional array. Find out the total number of zero elements in the array. Print all elements and total number of zero elements.

10. Write a program that will read n elements in one dimensional array. Find out the total number of positive, negative and zero elements in the array. Print all elements, total number of positive elements, total number of negative elements and total number of zero elements.

11. Write a program that will read n elements in one dimensional array. Also input an integer. Find out and print how many values are greater than the given integer from the array.

12. Write a program that will read n elements in one dimensional array. Also input an integer. Find out and print how many values are less than the given integer from the array.