BSc(Hons) in Information Technology
Year 1

Tutorial 10

Question 1

a) Write a C program that reads marks of 10 students in to a single subscripted array.

b) Above marks should be between 0 to 20. Modify the above program to add marks to the array only if the input mark is between the given range.

c) Find the mean of the marks by reading the values of the array.

Question 2

Modify the above program to display the indexes of the students who obtained more than the mean of the marks.

Question 3

Create an integer array called **Motion** of size 5. Ask the user to enter values to the array from the keyboard. Rotate the values of the array by one position in the forward direction and display the values.

Ex: number in index 4 should move to index 3, Number in index 3 should move to index2, number index 0 should move to index 4.

Initial values   10 6 8 2 9

After rotating   6 8 2 9 10

Additional Exercises

Question 1

Create an integer array called **numbers** of size 5. Ask the user to enter values to the array from the keyboard. Find the maximum value of the array and display the value.

Question 2

Write a C program that read numbers from an integer array and graph the information in the form of bar chat. Sample output is given below.

Element	Value	Histogram
0	19	******************
1	3	***
2	15	***************
3	7	*******
4	11	***********
5	9	*********
6	13	*************
7	5	*****
8	17	*****************
9	1	*