



## Sheet 2 (Arrays)

### Class Work

- 1- Write a program to read 5 numbers from the user in an array of integers, and print their sum, max.
- 2- Write a program to read two vectors (each has 5 values), and print their sum.
- 3- Write a program to read a matrix (3×3), and print it on the screen.

### Home Work

- 1- Write a program to read N numbers from the user in an array of integers (maximum 20 values), and print the numbers that above average.
- 2- Write a program to read N numbers from the user in an array of integers (maximum 20 values), and print the sum of each two values of them.  
Example: Input: 1, 3, 6, 10            Output: 4, 7, 11, 9, 13, 16
- 3- Write a program to read N numbers from the user in an array of integers,
  - a. Print the array in reverse order,
  - b. Count the number of occurrence of the first element.
  - c. Count the number of occurrence of each value in the array.
- 4- Write a program to read two matrices (3×3),
  - a. Prints their sum.
  - b. Prints the transpose of the first one.
  - c. Prints the determent of the second one.
  - d. Prints their multiplication.
- 5- Trace ? ? ? ?