

**Aim:** Understanding the arrays.

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1. Write a program that declares an array of 5 integers and does the followings:
  - a. Fills the array using the values given by the user.
  - b. Counts the values that are greater than 7.
  - c. Prints the values in the array.
  - d. Finds the maximum value in the array and displays it.

**Sample output:**

```
Please enter 5 integers: 4 12 43 32 9
There are 4 integers greater than 7.
Array contains: 4 12 43 32 9
Maximum value is 43.
```

**HOMEWORK: Modify your solution to question#1 by using different functions for each operation mentioned in a, b, c, and d.**

2. Write a program that asks user to fill 2x2 matrix of integers with values between 100 and 1000 (inclusive) and prints the numbers which are divisible by 2.

**HINT:** Regarding the elements of the matrix, you have to check if user enters an integer which is greater than or equal to 100 and less than or equal to 1000, otherwise you must keep on asking user to enter a valid value for the corresponding element.

**Sample output:**

```
Please fill a 2x2 matrix with values between 100 and 1000:
120
OK
445
OK
649
OK
50
The value should be in the range [100, 1000]. Enter again.
10
The value should be in the range [100, 1000]. Enter again.
100
OK
The numbers which are divisible by 2 are 120 100
```