

## 5 student:

### Single Dimensional Arrays

1. [task-01.cs] {0.3 points} An array of integers is given. The values of its elements:

-11, -23, 37, 101, -56, -61, 71, 89

1. Create a function to display the array.

2. Create another function to find out if the maximum value of the array is greater than 100. The function should return true or false. The signature of the function must be as following:

```
static Boolean FindIfMax(int[] arr)
```

Expected output:

Array:

-11 -23 37 101 -56 -61 71 89

the maximum value of the array is greater than 100: True

### Two-dimensional Arrays

2. [task-02.cs] {0.3 points} Create a function called FillMatrix to fill a 6-by-6 array with random numbers in the range from -30 to 20 and display them. Create one more function to print out the product of the elements which are in the specified n row (n is entered). The signature of the function must be as following:

```
static int PrintProductMatrix(int[,] m , int n)
```

Expected output:

The matrix 6 x 6:

```
9 -11 19 12 1 17
-25 -3 -9 -28 5 -26
-5 18 -16 -18 18 -15
-4 1 -27 -21 -27 -5
18 -13 -17 -1 -11 13
13 -3 -28 14 -12 10
```

enter the number of the row, please

2

product = -2457000

### String and Using StringBuilder class

3. [task-03.cs] {0.4 points} The sentence is entered. Create a function to change the sentence by replacing the first letters of all the words with exclamation mark (!). You should use *StringBuilder* class (no standard method should be used). The signature of the function must be as following:

```
static void replaceWords (ref StringBuilder sb)
```

Expected output:

Please, enter the sentence:

one two three four

new sentence:

!ne !wo !hree !our