**Exercises – C# Fundamentals language**

1. Write a C# program to print the result of dividing 24 into 5 on screen.
2. Create a C# program to print the result of the following operations:
   * -1 + 4 \* 6
   * ( 35+ 5 ) % 7
   * 14 + -4 \* 6 / 11
   * 2 + 15 / 6 \* 1 - 7 % 2

***Expected Output:***

**­­­­­**23  
5  
12  
3

1. Write a C# Sharp program to print on screen the output of adding, subtracting, multiplying and dividing of two numbers which will be entered by the user.

***Test Data:***  
Input the first number: 25  
Input the second number: 4

***Expected Output:***25 + 4 = 29  
25 - 4 = 21  
25 x 4 = 100   
25 / 4 = 6  
25 mod 4 = 1

1. Write a C# Sharp program that takes four numbers as input to calculate and print the average. Go to the editor

***Test Data:***

Enter the First number: 10

Enter the Second number: 15

Enter the third number: 20

Enter the four number: 30

***Expected Output:***

The average of 10 , 15 , 20 , 30 is: 18

1. Write a program in C# Sharp to display the number in reverse order.

***Test Data :***Input a number: 12345

**Expected Output :**  
The number in reverse order is : 54321

1. Write a program in C# Sharp to read n number of values in an array and display it in reverse order.

***Test Data :***   
Input the number of elements to store in the array :3   
Input 3 number of elements in the array :   
element - 0 : 2   
element - 1 : 5   
element - 2 : 7

**Expected Output:**   
The values store into the array are:   
2 5 7   
The values store into the array in reverse are :   
7 5 2

1. Write a programin C# Sharp to separate odd and even integers in separate arrays.

***Test Data :***   
Input the number of elements to be stored in the array :5   
Input 5 elements in the array :   
element - 0 : 25   
element - 1 : 47   
element - 2 : 42   
element - 3 : 56   
element - 4 : 32

**Expected Output:**   
The Even elements are:   
42 56 32   
The Odd elements are :   
25 47

1. Write a program in C# Sharp to insert New value in the array (unsorted list).

***Test Data :***   
Input the size of array : 4   
Input 4 elements in the array in ascending order:   
element - 0 : 1   
element - 1 : 8   
element - 2 : 7   
element - 3 : 10   
Input the value to be inserted : 5   
Input the Position, where the value to be inserted :2

**Expected Output :**  
The current list of the array :  
1 8 7 10   
After Insert the element the new list is :  
1 5 8 7 10

1. Write a C# program remove specified a character from a non-empty string using index of a character.

***Test Data:***

Fpt@university

***Sample Output:***

pt@university

Fptuniversity

Fpt@universit

1. Write a C# program to create a new string from a given string where the first and last characters will change their positions

***Test Data:***

w3resource

Python

***Sample Output:***

e3resourcw

nythoP

1. Write a C# program to find the longest word in a string.

***Test Data***: Write a C# Sharp Program to display the following pattern using the alphabet.  
**Sample Output**:  
following

1. Write a C# program to reverse the words of a sentence.

**Sample Output:***Original String*: Display the pattern like pyramid using the alphabet.  
*Reverse String*: alphabet. the using pyramid like pattern the Display