**Name: Session:**

**Programming II**

**Lab Exercise 5.23.2024**

1. Write a C# Sharp program to check if three given numbers are in strict increasing order.  
   For example, 4 7 15, or 45, 56, 67, but not 4 ,5, 8 or 6, 6, 8. However, if a fourth parameter is true, equality is allowed, such as 6, 6, 8 or 7, 7, 7.

Sample Input:  
1, 2, 3, false  
1, 2, 3, true  
10, 2, 30, false  
10, 10, 30, true  
Expected Output:

True

True

False

True

1. Write a C# Sharp program to check if a given string begins with 'abc' or 'xyz'. If the string begins with 'abc' or 'xyz' return 'abc' or 'xyz' otherwise return an empty string.

Sample Input:  
"abc"  
"abcdef"  
"C"  
"xyz"  
"xyzsder"  
Expected Output:

abc

abc

xyz

xyz

1. Write a C# Sharp program to check a given array of integers and return true if 5 appears 5 times. There are no 5 next to each other.

Sample Input:  
{ 3, 5, 1, 5, 3, 5, 7, 5, 1, 5 }  
{ 3, 5, 5, 5, 5, 5, 5 }  
{ 3, 5, 2, 5, 4, 5, 7, 5, 8, 5 }  
{ 2, 4, 5, 5, 5, 5 }  
{ 3, 5, 5, 5, 5, 5, 5, 5, 5, 5 }  
Expected Output :

True

False

True

False

False

1. Write a C# program to divide two given integers (dividend and divisor) and get the quotient without using multiplication, division and mod operator.

Expected Output:  
Dividend = 7, Divisor = 3  
Quotient= 2

Remainder = 1  
Dividend = -17, Divisor = 5  
Quotient= -3

Remainder = -2  
Dividend = 35, Divisor = 7  
Quotient = 5

Remainder = 0