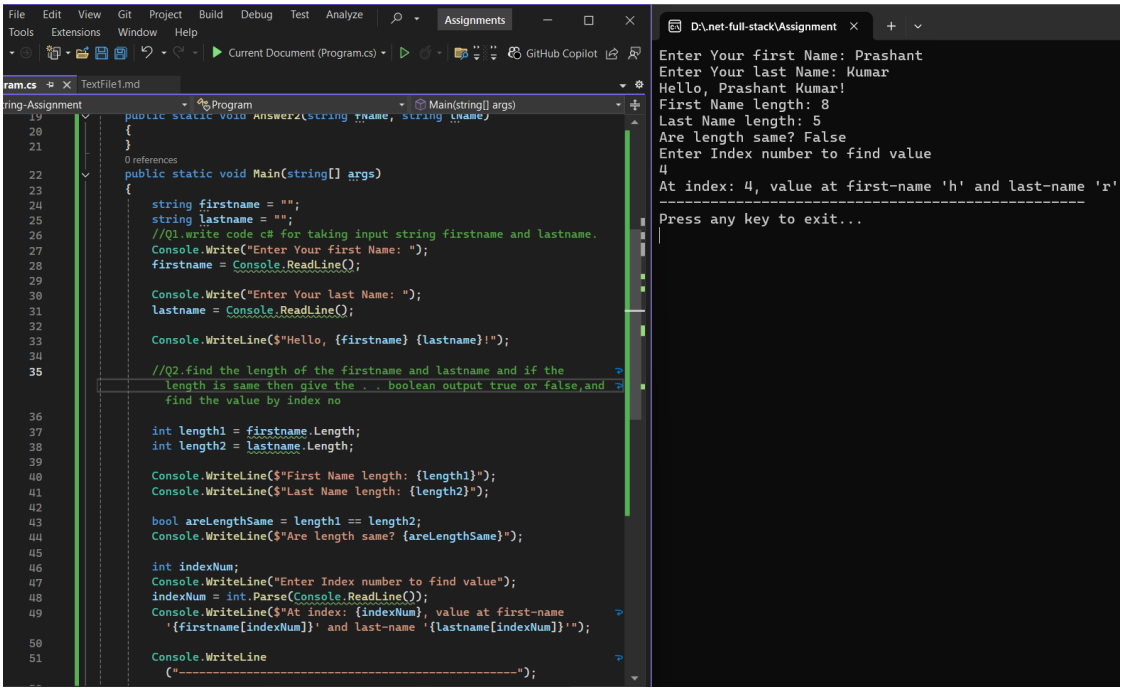
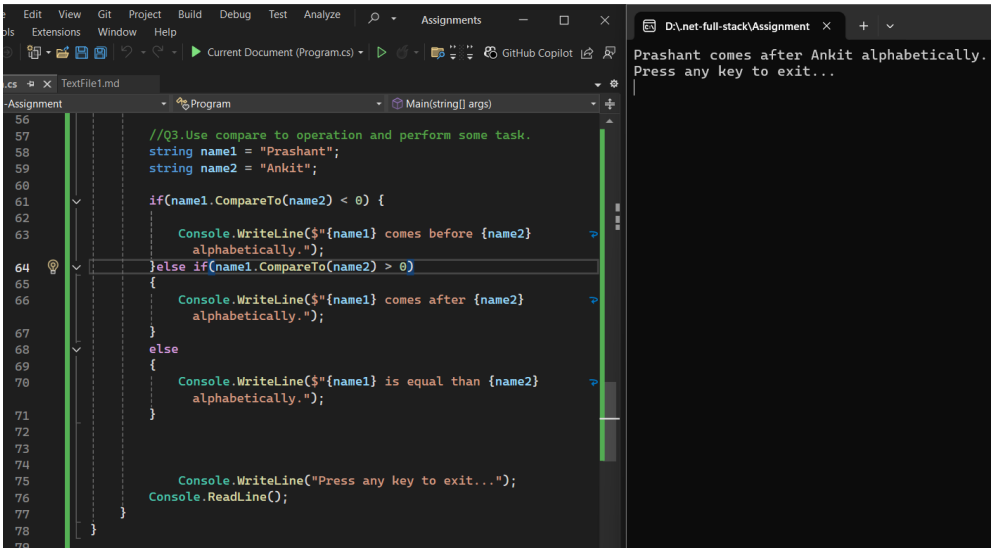
STRING QUESTIONS

Q1.write code c# for taking input string firstname and lastname.

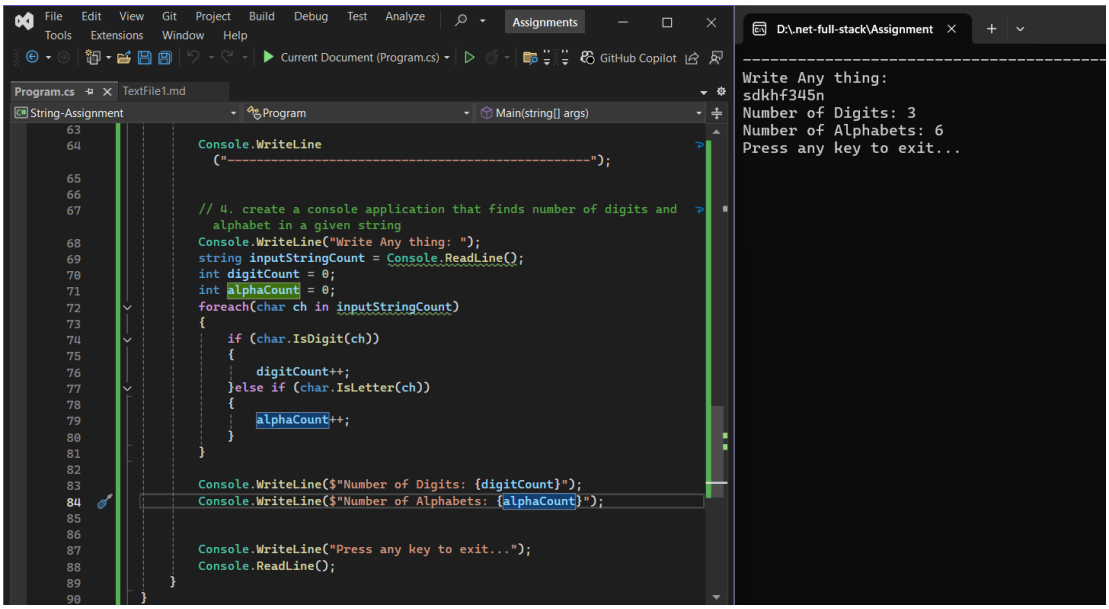
Q2.find the length of the firstname and lastname and if the length is same then give the . . boolean output true or false,and find the value by index no



Q3.Use compare to operation and perform some task.



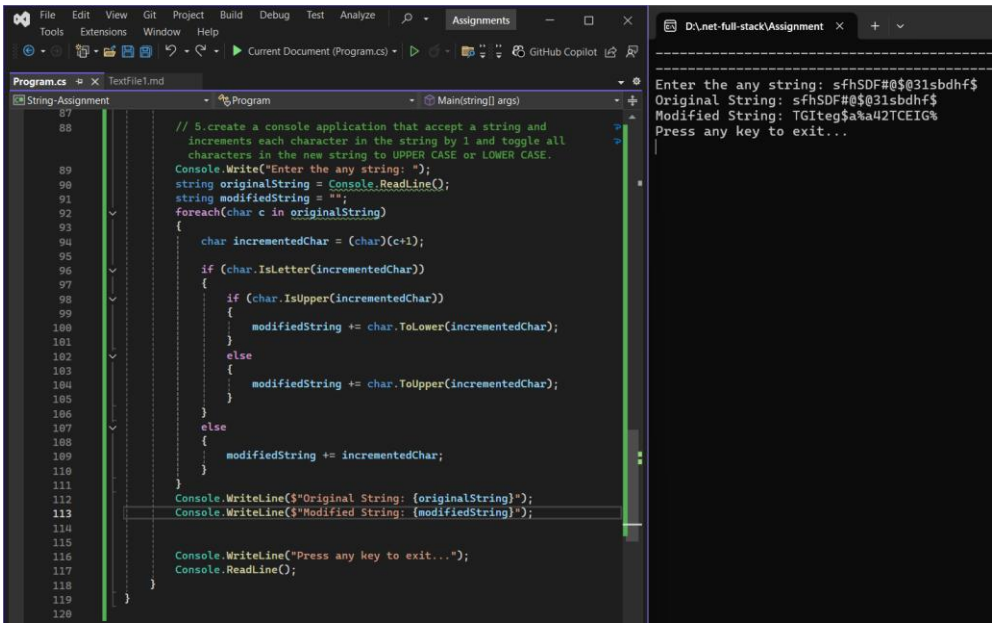
4. create a console application that finds number of digits and alphabet in a given string



```
Console.WriteLine
  ("-----------------------------------------------");


// 4. create a console application that finds number of digits and
   alphabet in a given string
Console.WriteLine("Write Any thing: ");
string inputStringCount = Console.ReadLine();
int digitCount = 0;
int alphaCount = 0;
foreach(char ch in inputStringCount)
{
    if (char.IsDigit(ch))
    {
        digitCount++;
    }else if (char.IsLetter(ch))
    {
        alphaCount++;
    }
}

Console.WriteLine($"Number of Digits: {digitCount}");
Console.WriteLine($"Number of Alphabets: {alphaCount}");


Console.WriteLine("Press any key to exit...");
Console.ReadLine();
}
}
```

```
D:\.net-full-stack\Assignment
Write Any thing:
sdkhf345n
Number of Digits: 3
Number of Alphabets: 6
Press any key to exit...
```

5.create a console application that accept a string and increments each character in the string by 1 and toggle all characters in the new string to UPPER CASE or LOWER CASE.

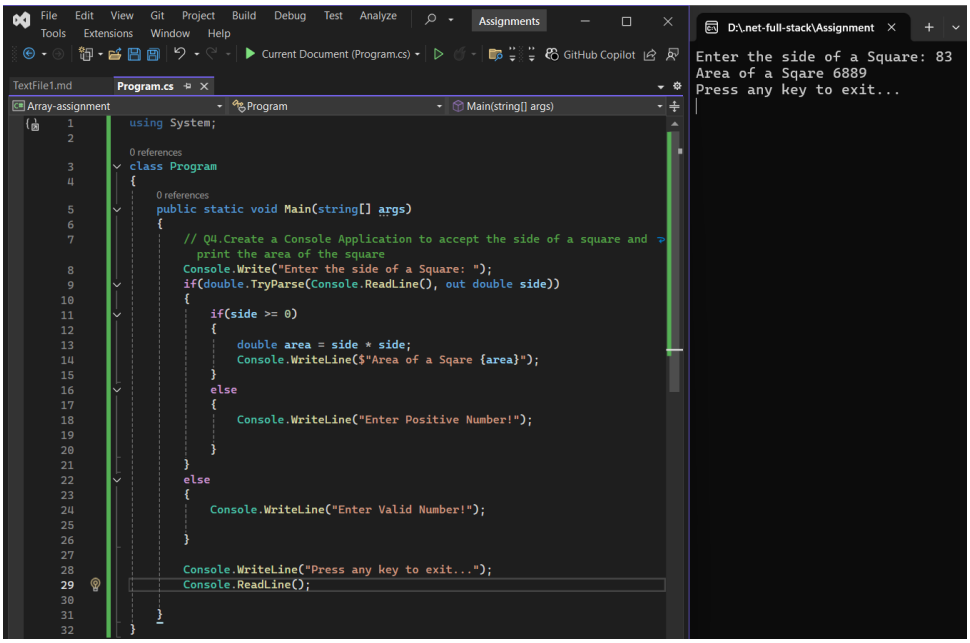


```
// 5.create a console application that accept a string and
   increments each character in the string by 1 and toggle all
   characters in the new string to UPPER CASE or LOWER CASE.
Console.Write("Enter the any string: ");
string originalString = Console.ReadLine();
string modifiedString = "";
foreach(char c in originalString)
{
    char incrementedChar = (char)(c+1);

    if (char.IsLetter(incrementedChar))
    {
        if (char.IsUpper(incrementedChar))
        {
            modifiedString += char.ToLower(incrementedChar);
        }
        else
        {
            modifiedString += char.ToUpper(incrementedChar);
        }
    }
    else
    {
        modifiedString += incrementedChar;
    }
}
Console.WriteLine($"Original String: {originalString}");
Console.WriteLine($"Modified String: {modifiedString}");


Console.WriteLine("Press any key to exit...");
Console.ReadLine();
}
}
```

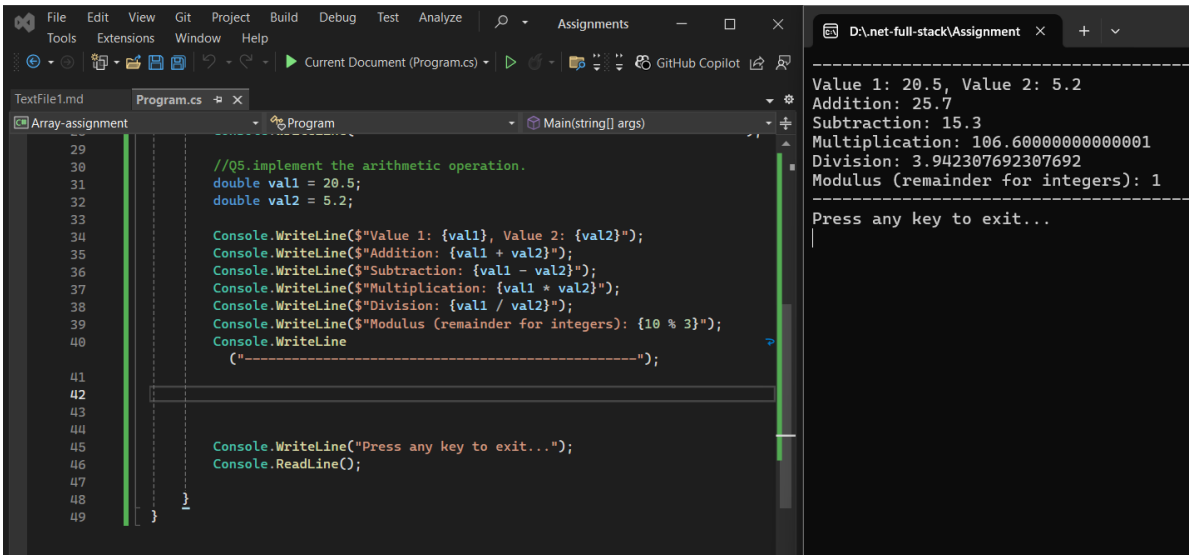
```
D:\.net-full-stack\Assignment
Enter the any string: sfhSDF#@$@31sbdhf$
Original String: sfhSDF#@$@31sbdhf$
Modified String: TGIteg$a%a42TCEIG%
Press any key to exit...
```

INTEGER

6. Create a Console Application to accept the side of a square and print the area of the square



7. implement the arithmetic operation.



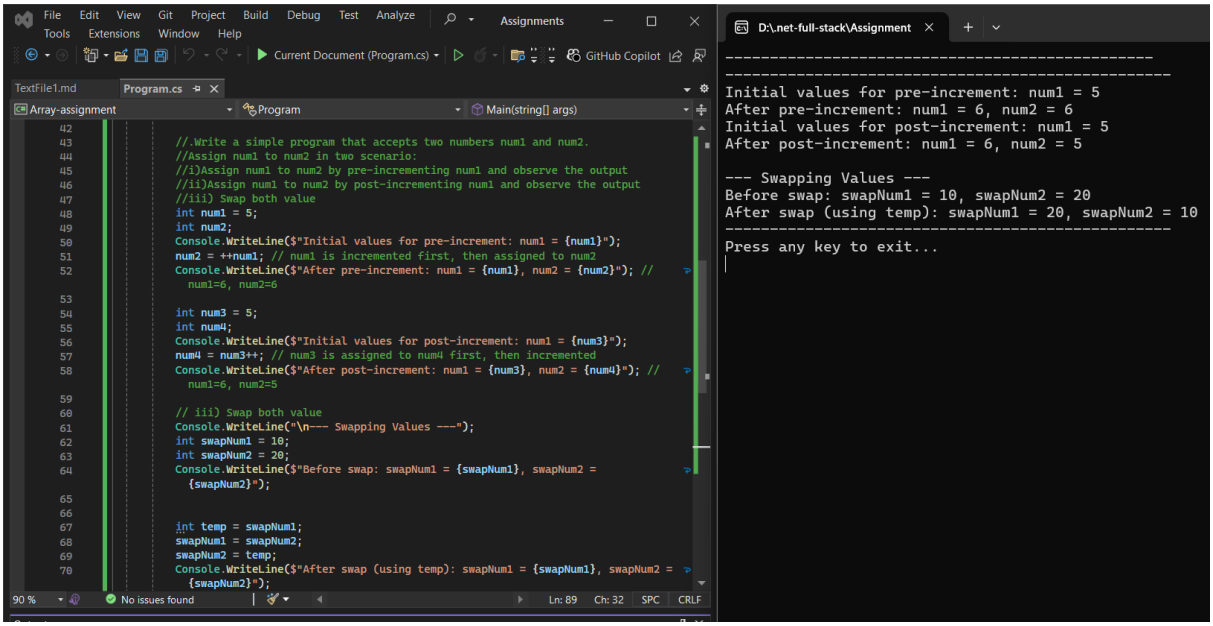
8. .Write a simple program that accepts two numbers num1 and num2.

Assign num1 to num2 in two scenario:

i)Assign num1 to num2 by pre-incrementing num1 and observe the output

ii)Assign num1 to num2 by post-incrementing num1 and observe the output

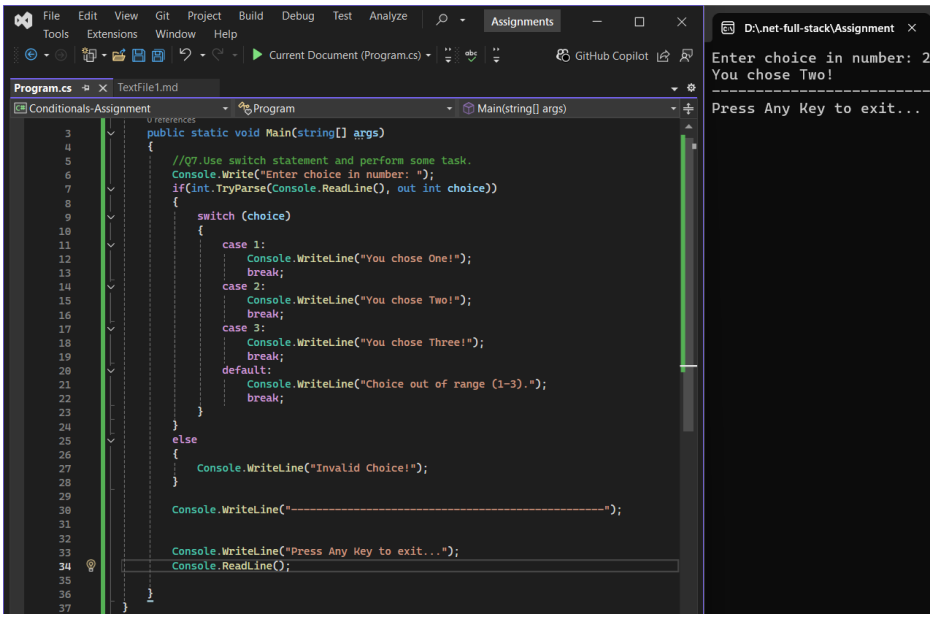
iii) Swap both value



```
//.Write a simple program that accepts two numbers num1 and num2.
//Assign num1 to num2 in two scenario:
//i)Assign num1 to num2 by pre-incrementing num1 and observe the output
//ii)Assign num1 to num2 by post-incrementing num1 and observe the output
//iii) Swap both value
int num1 = 5;
int num2;
Console.WriteLine($"Initial values for pre-increment: num1 = {num1}");
num2 = ++num1; // num1 is incremented first, then assigned to num2
Console.WriteLine($"After pre-increment: num1 = {num1}, num2 = {num2}"); //
  num1=6, num2=6

int num3 = 5;
int num4;
Console.WriteLine($"Initial values for post-increment: num1 = {num3}");
num4 = num3++; // num3 is assigned to num4 first, then incremented
Console.WriteLine($"After post-increment: num1 = {num3}, num2 = {num4}"); //
  num1=6, num2=5

// iii) Swap both value
Console.WriteLine("\n--- Swapping Values ---");
int swapNum1 = 10;
int swapNum2 = 20;
Console.WriteLine($"Before swap: swapNum1 = {swapNum1}, swapNum2 =
  {swapNum2}");


int temp = swapNum1;
swapNum1 = swapNum2;
swapNum2 = temp;
Console.WriteLine($"After swap (using temp): swapNum1 = {swapNum1}, swapNum2 =
  {swapNum2}");
```

```
Initial values for pre-increment: num1 = 5
After pre-increment: num1 = 6, num2 = 6
Initial values for post-increment: num1 = 5
After post-increment: num1 = 6, num2 = 5

--- Swapping Values ---
Before swap: swapNum1 = 10, swapNum2 = 20
After swap (using temp): swapNum1 = 20, swapNum2 = 10
Press any key to exit...
```

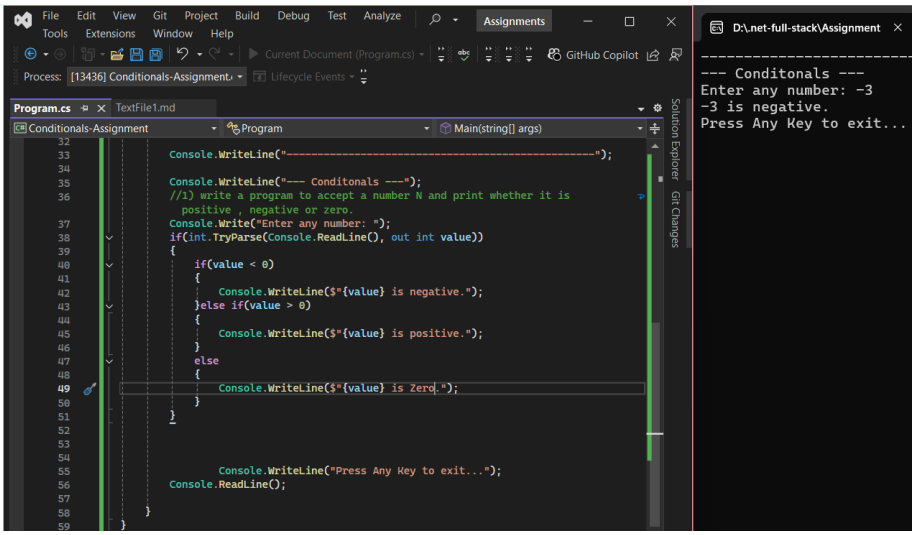
9. Use switch statement and perform some task.



```
public static void Main(string[] args)
{
    //Q7.Use switch statement and perform some task.
    Console.Write("Enter choice in number: ");
    if(int.TryParse(Console.ReadLine(), out int choice))
    {
        switch (choice)
        {
            case 1:
                Console.WriteLine("You chose One!");
                break;
            case 2:
                Console.WriteLine("You chose Two!");
                break;
            case 3:
                Console.WriteLine("You chose Three!");
                break;
            default:
                Console.WriteLine("Choice out of range (1-3).");
                break;
        }
    }
    else
    {
        Console.WriteLine("Invalid Choice!");
    }

    Console.WriteLine("-----------------------------------------------");


    Console.WriteLine("Press Any Key to exit...");
    Console.ReadLine();

}
```

```
Enter choice in number: 2
You chose Two!
-------------------------
Press Any Key to exit...
```

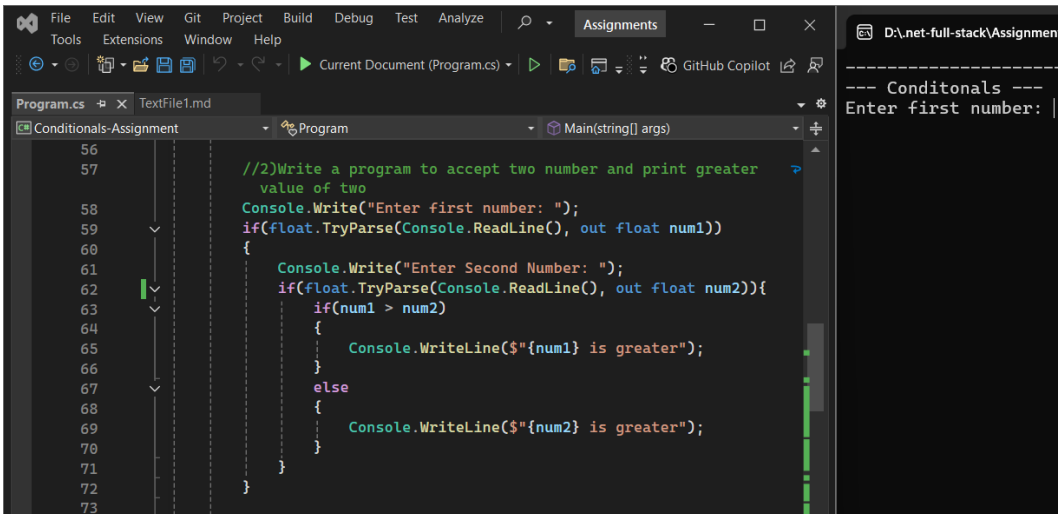
10. write a program to accept a number N and print whether it is positive , negative or zero.



```
--- Conditonals ---
Enter any number: -3
-3 is negative.
Press Any Key to exit...
```

```
Console.WriteLine("---------------------------------------------------");

Console.WriteLine("--- Conditonals ---");
//1) write a program to accept a number N and print whether it is
  positive , negative or zero.
Console.Write("Enter any number: ");
if(int.TryParse(Console.ReadLine(), out int value))
{
    if(value < 0)
    {
        Console.WriteLine($"{value} is negative.");
    }else if(value > 0)
    {
        Console.WriteLine($"{value} is positive.");
    }
    else
    {
        Console.WriteLine($"{value} is Zero.");
    }
}


        Console.WriteLine("Press Any Key to exit...");
Console.ReadLine();
    }
}
```

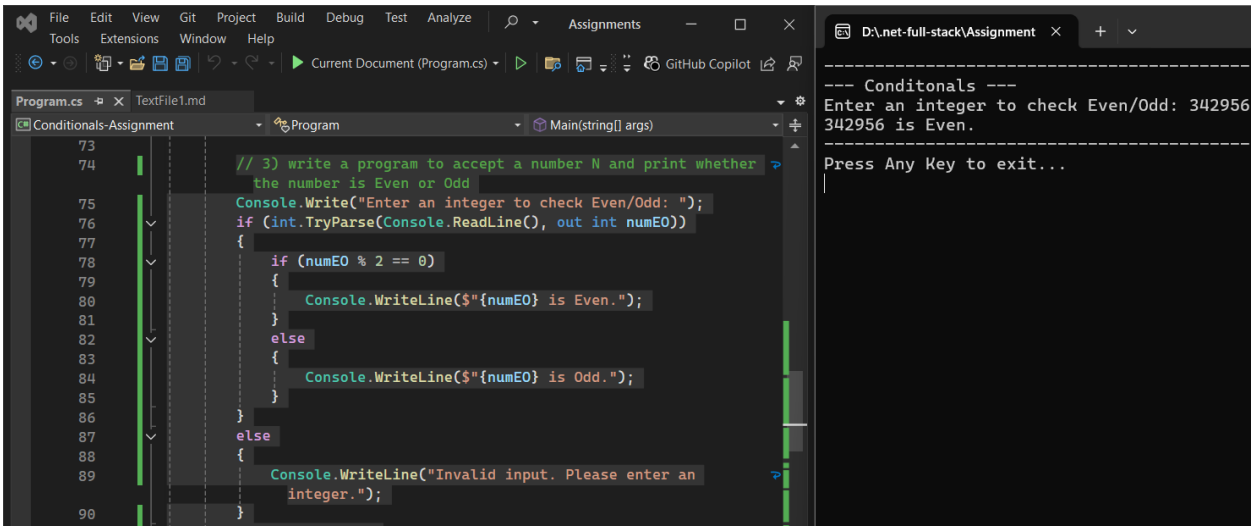
11. Write a program to accept two number and print greater value of two



```
--- Conditonals ---
Enter first number:
```

```
//2)Write a program to accept two number and print greater
  value of two
Console.Write("Enter first number: ");
if(float.TryParse(Console.ReadLine(), out float num1))
{
    Console.Write("Enter Second Number: ");
    if(float.TryParse(Console.ReadLine(), out float num2)){
        if(num1 > num2)
        {
            Console.WriteLine($"{num1} is greater");
        }
        else
        {
            Console.WriteLine($"{num2} is greater");
        }
    }
}
```

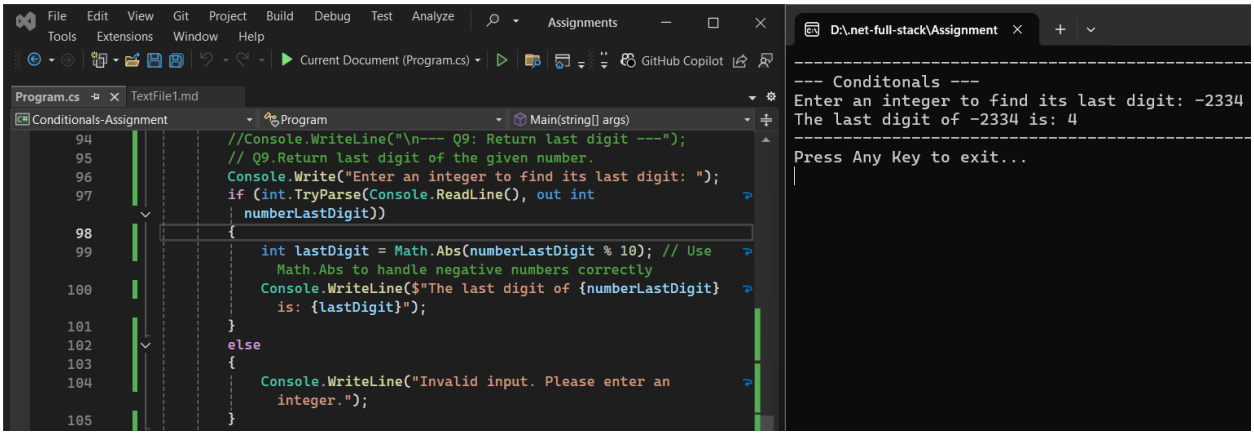
12. write a program to accept a number N and print whether the number is Even or Odd



```
--- Conditonals ---
Enter an integer to check Even/Odd: 342956
342956 is Even.
---------------------------------------------
Press Any Key to exit...
```

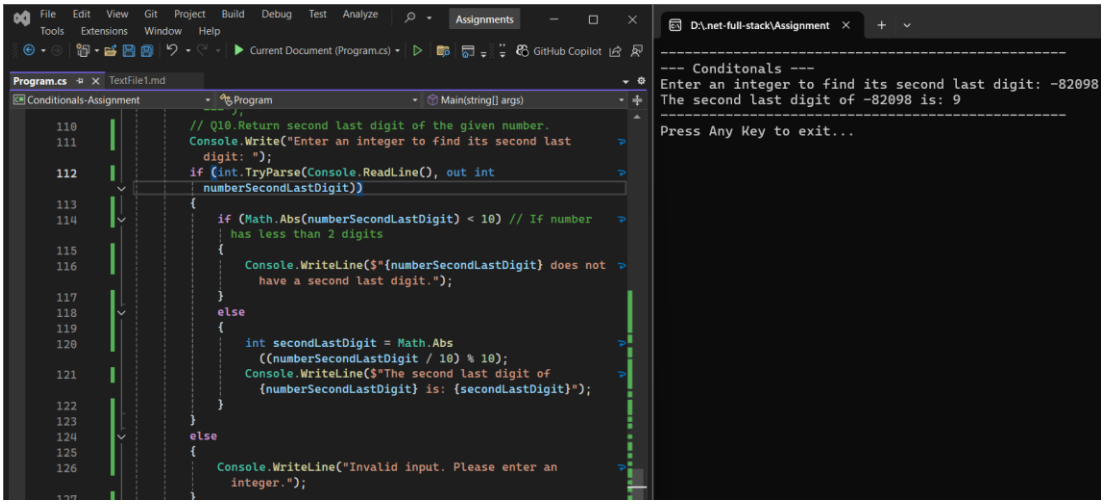
```
// 3) write a program to accept a number N and print whether
  the number is Even or Odd
Console.Write("Enter an integer to check Even/Odd: ");
if (int.TryParse(Console.ReadLine(), out int numEO))
{
    if (numEO % 2 == 0)
    {
        Console.WriteLine($"{numEO} is Even.");
    }
    else
    {
        Console.WriteLine($"{numEO} is Odd.");
    }
}
else
{
    Console.WriteLine("Invalid input. Please enter an
      integer.");
}
```

13. Return last digit of the given number.

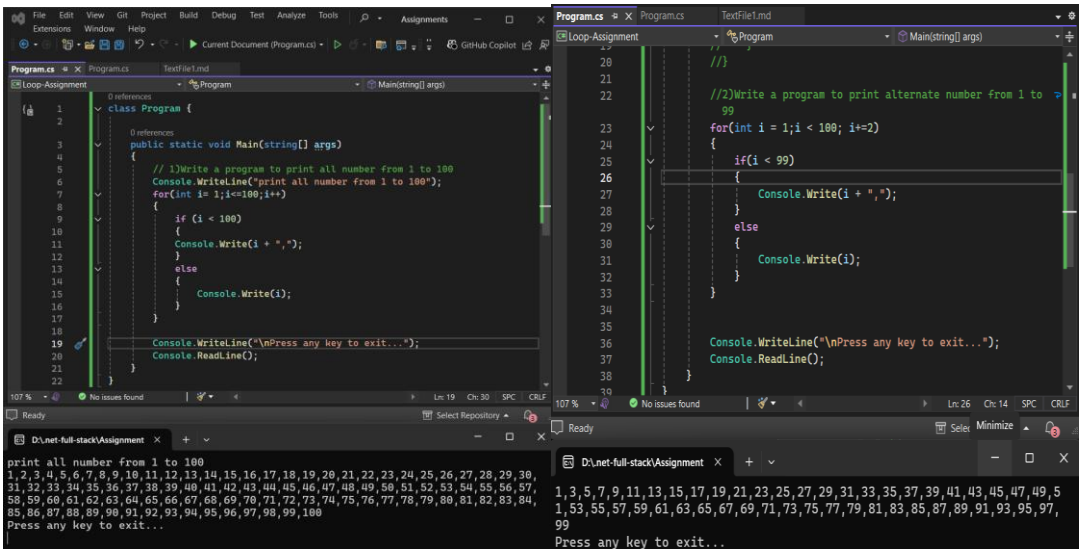


```
--- Conditonals ---
Enter an integer to find its last digit: -2334
The last digit of -2334 is: 4
Press Any Key to exit...
```

14. Return second last digit of the given number.



```
--- Conditonals ---
Enter an integer to find its second last digit: -82098
The second last digit of -82098 is: 9
Press Any Key to exit...
```



```
print all number from 1 to 100
1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,
31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,
58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,
85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100
Press any key to exit...
```

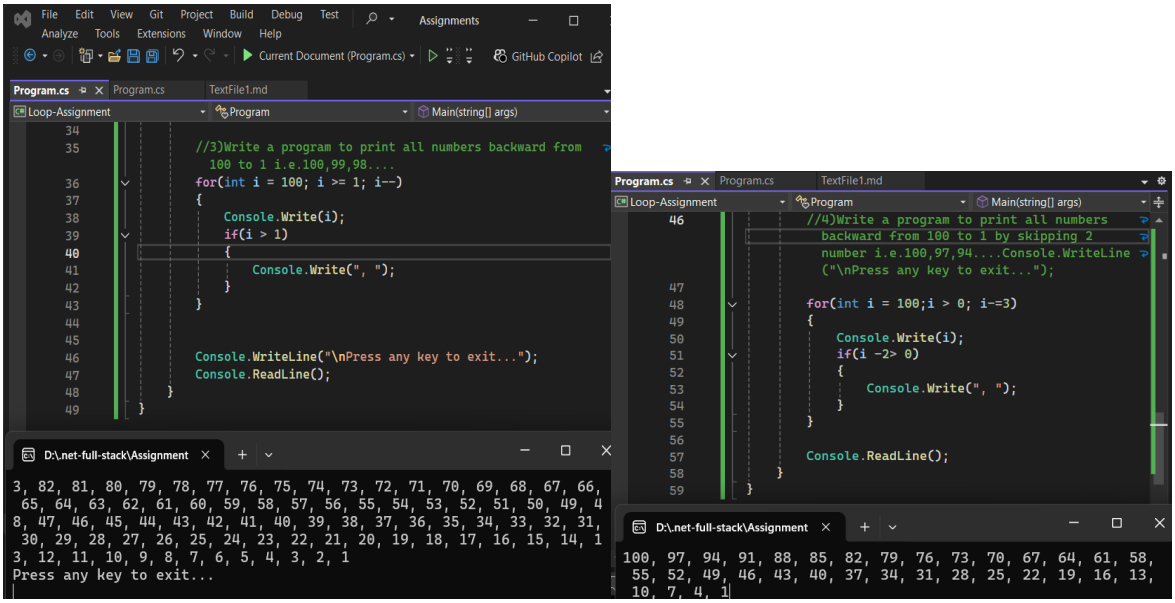
```
1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,5
1,53,55,57,59,61,63,65,67,69,71,73,75,77,79,81,83,85,87,89,91,93,95,97,
99
Press any key to exit...
```

15. Write a program to print all number from 1 to 100

16. Write a program to print alternate number from 1 to 99

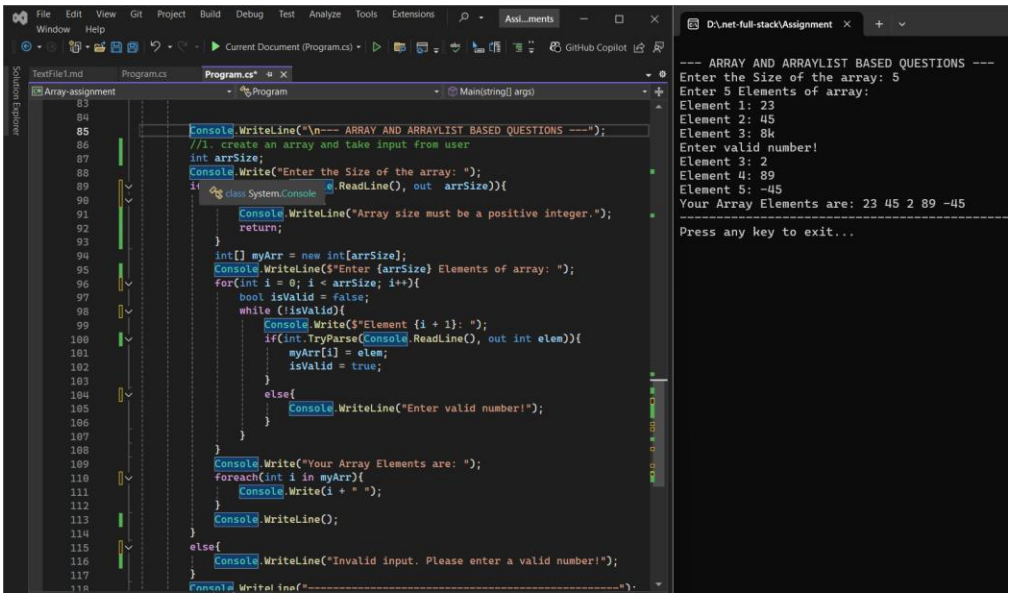
17. Write a program to print all numbers backward from 100 to 1 i.e.100,99,98....

18. Write a program to print all numbers backward from 100 to 1 by skipping 2 number i.e.100,97,94....



Array ArrayList

19. create an array and take input from user



20. Write a program that finds a number of element in an array with out using built in function.

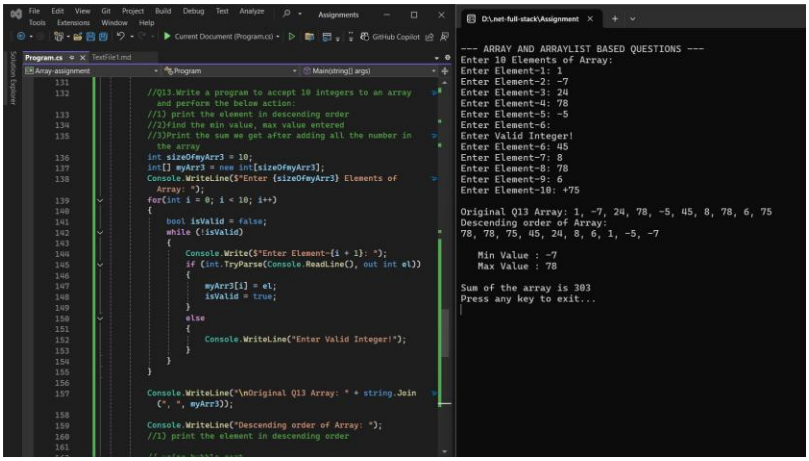
```
Program.cs | TextFile1.md | Program.cs
Array-assignment | Program | Main(string[] args)
120
121         //Q12.Write a program that finds a number
              of element in an array with out using
              built in function.
122         int[] myArr2 = { 23, 12, -47, 0, 23, 85 };
123         int count = 0;
124         foreach(int i in myArr2)
125         {
126             count++;
127         }
128         Console.Write($"Lenth of Array: {count}
              \n");
129
130
131
132
133
134
135
136
107 %
Ready

D:\.net-full-stack\Assig

--- ARRAY AND ARRAYLIST BASED QUESTIONS ---
Lenth of Array: 6
Press any key to exit...
```

Q13.Write a program to accept 10 integers to an array and perform the below action:

1) print the element in descending order

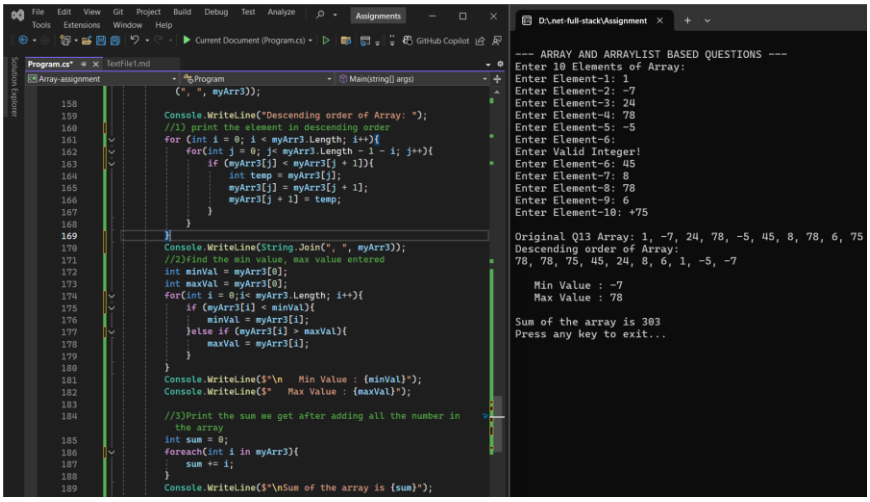
2)find the min value, max value entered

3)Print the sum we get after adding all the number in the array



```
//Q13.Write a program to accept 10 integers to an array
  and perform the below action:
//1) print the element in descending order
//2)find the min value, max value entered
//3)Print the sum we get after adding all the number in
  the array
int sizeOfmyArr3 = 10;
int[] myArr3 = new int[sizeOfmyArr3];
Console.WriteLine($"Enter {sizeOfmyArr3} Elements of
  Array: ");
for(int i = 0; i < 10; i++)
{
    bool isValid = false;
    while (!isValid)
    {
        Console.Write($"Enter Element-{i + 1}: ");
        if (int.TryParse(Console.ReadLine(), out int el))
        {
            myArr3[i] = el;
            isValid = true;
        }
        else
        {
            Console.WriteLine("Enter Valid Integer!");
        }
    }
}

Console.WriteLine("\nOriginal Q13 Array: " + string.Join
  (", ", myArr3));

Console.WriteLine("Descending order of Array: ");
//1) print the element in descending order
```

```
--- ARRAY AND ARRAYLIST BASED QUESTIONS ---
Enter 10 Elements of Array:
Enter Element-1: 1
Enter Element-2: -7
Enter Element-3: 24
Enter Element-4: 78
Enter Element-5: -5
Enter Element-6:
Enter Valid Integer!
Enter Element-6: 45
Enter Element-7: 8
Enter Element-8: 78
Enter Element-9: 6
Enter Element-10: +75

Original Q13 Array: 1, -7, 24, 78, -5, 45, 8, 78, 6, 75
Descending order of Array:
78, 78, 75, 45, 24, 8, 6, 1, -5, -7

   Min Value : -7
   Max Value : 78

Sum of the array is 303
Press any key to exit...
```



```
(", ", myArr3));

Console.WriteLine("Descending order of Array: ");
//1) print the element in descending order
for (int i = 0; i < myArr3.Length; i++){
    for(int j = 0; j< myArr3.Length - 1 - i; j++){
        if (myArr3[j] < myArr3[j + 1]){
            int temp = myArr3[j];
            myArr3[j] = myArr3[j + 1];
            myArr3[j + 1] = temp;
        }
    }
}
Console.WriteLine(String.Join(", ", myArr3));
//2)find the min value, max value entered
int minVal = myArr3[0];
int maxVal = myArr3[0];
for(int i = 0;i< myArr3.Length; i++){
    if (myArr3[i] < minVal){
        minVal = myArr3[i];
    }else if (myArr3[i] > maxVal){
        maxVal = myArr3[i];
    }
}
Console.WriteLine($"\n   Min Value : {minVal}");
Console.WriteLine($"   Max Value : {maxVal}");

//3)Print the sum we get after adding all the number in
  the array
int sum = 0;
foreach(int i in myArr3){
    sum += i;
}
Console.WriteLine($"\nSum of the array is {sum}");
```

```
--- ARRAY AND ARRAYLIST BASED QUESTIONS ---
Enter 10 Elements of Array:
Enter Element-1: 1
Enter Element-2: -7
Enter Element-3: 24
Enter Element-4: 78
Enter Element-5: -5
Enter Element-6:
Enter Valid Integer!
Enter Element-6: 45
Enter Element-7: 8
Enter Element-8: 78
Enter Element-9: 6
Enter Element-10: +75

Original Q13 Array: 1, -7, 24, 78, -5, 45, 8, 78, 6, 75
Descending order of Array:
78, 78, 75, 45, 24, 8, 6, 1, -5, -7

   Min Value : -7
   Max Value : 78

Sum of the array is 303
Press any key to exit...
```