

```
//Laboratory Activity15
//Sliding Window Sum
```

```
using System;
using System.Linq;
using System.Collections.Generic;
```

```
namespace HelloWorld;
```

```
public static class Activity15
```

```
{
    public static void Main(String[] args)
    {
        List<int> numbers = new List<int>();

        Console.WriteLine("Enter at least 10 numbers:");
        for (int i = 0; i < 10; i++)
        {
            Console.Write($"Number {i + 1}: ");
            numbers.Add(int.Parse(Console.ReadLine()));
        }
        Console.Write("\nEnter window size (k): ");
        int k = int.Parse(Console.ReadLine());

        while (k > numbers.Count || k <= 0)
        {
            Console.Write("Invalid window size. Enter again: ");
            k = int.Parse(Console.ReadLine());
        }
        Console.WriteLine($"Sliding window sums (window size = {k}):");

        for (int i = 0; i <= numbers.Count - k; i++)
        {
            int sum = 0;
            for (int j = i; j < i + k; j++)
            {
                sum += numbers[j];
            }
            Console.WriteLine($"Window starting at index {i}: {sum}");
        }
    }
}
```