

2100030522

Syed Hasif Alisha

Lab – 6

```
16 int count = 0;
17 foreach (char c in str)
18 {
19     if (char.IsLetter(c))
20         count++;
21 }
22 return count;
23 }
24
25 // Extension method to check if a day is a weekend
26 public static bool IsDayOff(this DayOfWeek day)
27 {
28     return day == DayOfWeek.Saturday || day == DayOfWeek.Sunday;
29 }
30
31 // Extension method to filter even positive elements from IEnumerable<int>
32 public static IEnumerable<int> EvenPositiveElements(this IEnumerable<int> numbers)
33 {
34     return numbers.Where(n => n > 0 && n % 2 == 0);
35 }
36
37 @references
38
39 @class Program
40 {
41     @references
42     static void Main(string[] args)
43     {
44         // Example usage
45         // SummaDigit
46         int number1 = 1274;
47         Console.WriteLine($"Sum of digits of {number1}: {number1.SummaDigit()}");
48
49         // SummaWithReverse
50         int number2 = 132;
51         Console.WriteLine($"Sum of {number2} with its reverse: {number2.SummaWithReverse()}");
52
53         // CountNotLetter
54         string str = "1 Line C#";
55         Console.WriteLine($"Number of non-Latin letters in '{str}': {str.CountNotLetter()}");
56
57         // IsDayOff
58         DayOfWeek day = DayOfWeek.Sunday;
59         Console.WriteLine($" {day} is a weekend: {day.IsDayOff()}");
60
61         // EvenPositiveElements
62         int[] numbers1 = { 2, -2, 3, 4, 8, 5, 1, 9 };
63         Console.WriteLine($"Even positive elements: " + string.Join(", ", numbers1.EvenPositiveElements()));
64
65         List<int> numbers2 = new List<int> { 2, 3, -4, 8, 5, 4 };
66         Console.WriteLine($"Even positive elements: " + string.Join(", ", numbers2.EvenPositiveElements()));
67     }
68 }
```

OUTPUT:

