

Main.cs



Share

Run

```
1 using System;
2
3 class Program
4 {
5     static void Main()
6     {
7         int totalScores = 0;
8         double sumScores = 0;
9         string again;
10
11         do
12         {
13             Console.Write("Enter a numerical score (0-100): ");
14             string input = Console.ReadLine();
15
16             // Try parsing the input safely
17             bool isValidNumber = int.TryParse(input, out int score);
18
19             // Check if the input is a valid number and within the range 0-100
20             if (isValidNumber && score >= 0 && score <= 100)
21             {
22                 char grade; // all the possible outcome if the input grade:
23
24                 if (score >= 90) { grade = 'A'; }
25
26                 else if (score >= 80) { grade = 'B'; }
27
28                 else if (score >= 70) { grade = 'C'; }
29
30                 else if (score >= 60) { grade = 'D'; }
31
32                 else { grade = 'F'; }
33
34                 Console.WriteLine("\nYour letter grade is: " + grade + "\n");
35
```

```

34         Console.WriteLine("\nYour letter grade is: " + grade + "\n");
35
36         switch (grade)
37         {
38             case 'A':
39                 Console.WriteLine("Excellent work!");
40                 break;
41             case 'B':
42                 Console.WriteLine("Good job!");
43                 break;
44             case 'C':
45                 Console.WriteLine("You passed.");
46                 break;
47             case 'D':
48                 Console.WriteLine("You need to improve.");
49                 break;
50             case 'F':
51                 Console.WriteLine("You failed. Please try again.");
52                 break;
53         }
54
55         // Add score to total
56         totalScores = totalScores + 1;
57         sumScores = sumScores + score;
58     }
59     else
60     {
61         Console.WriteLine("Invalid input. Please enter a number between 0 and 100
62             .\n");
63     }
64
65     // Ask user if they want to enter another
66     Console.Write("\nDo you want to enter another score? (yes/no): ");
67     again = Console.ReadLine().ToLower();
68     Console.WriteLine();
69
70     } while (again == "yes"); // loop
71
72     // Display summary if valid scores exist
73     if (totalScores > 0)
74     {
75         double average = sumScores / totalScores;
76         Console.WriteLine("You entered a total of " + totalScores + " valid scores.");
77         Console.WriteLine("The average score is: " + average.ToString("F1"));
78     }
79
80     Console.WriteLine("\nGoodbye!");
81 }
82

```

```

68
69     } while (again == "yes"); // loop
70
71     // Display summary if valid scores exist
72     if (totalScores > 0)
73     {
74         double average = sumScores / totalScores;
75         Console.WriteLine("You entered a total of " + totalScores + " valid scores.");
76         Console.WriteLine("The average score is: " + average.ToString("F1"));
77     }
78
79     Console.WriteLine("\nGoodbye!");
80 }
81 }
82

```

### Output

Clear

```

Enter a numerical score (0-100): 100

Your letter grade is: A

Excellent work!

Do you want to enter another score? (yes/no): yes

Enter a numerical score (0-100): 70

Your letter grade is: C

You passed.

Do you want to enter another score? (yes/no): yes

Enter a numerical score (0-100): 30

Your letter grade is: F

You failed. Please try again.

Do you want to enter another score? (yes/no): yes

Enter a numerical score (0-100): 107
Invalid input. Please enter a number between 0 and 100.

Do you want to enter another score? (yes/no):
=== Session Ended. Please Run the code again ===

```