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Online C# Compiler (Editor) - P ×

Reg. Task - psathasivam419@g ×

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Programiz C# Online Compiler

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Main.cs

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Run

```
1 using System;
2 using System.Diagnostics;
3 using System.Linq;
4 using System.Collections.Generic;
5
6 class Program
7 {
8     // List to store player results
9     static List<PlayerResult> playerResults = new List<PlayerResult>
10     >();
11     static string _computerNumber;
12     static void Main(string[] args)
13     {
14         string playerName;
15         Stopwatch stopwatch = new Stopwatch();
16
17         Console.WriteLine("Welcome to the Guessing Number Game!");
18
19         // Prompt user to enter their name
20         Console.Write("Enter your name: ");
21         playerName = Console.ReadLine();
22
23         // Start the timer
24         stopwatch.Start();
25
26         // Generate the computer's number (4 digits with no
```

Output

Clear

```
Welcome to the Guessing Number Game!
Enter your name: Sathasivam

Enter your 4-digit guess:
1234
Feedback: -

Enter your 4-digit guess:
2567
Feedback: - -

Enter your 4-digit guess:
6892
Feedback: - - - +

Enter your 4-digit guess:
8692
Feedback: + + + +
Congratulations Sathasivam! You guessed the number in 4 guesses and 65.16 seconds.

Best Score:
Player: Sathasivam
Guesses: 4
Time Taken: 65 seconds
Score: 5.08

=== Code Execution Successful ===
```

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Main.cs

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Run

Output

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```
23
26 // Generate the computer's number (4 digits with no
    duplicates)
27 _computerNumber = GenerateRandomNumber();
28
29 int numberOfGuesses = 0;
30 bool correctGuess = false;
31
32 while (!correctGuess)
33 {
34     numberOfGuesses++;
35     Console.WriteLine("\nEnter your 4-digit guess: ");
36     string userGuess = Console.ReadLine();
37
38     if (userGuess.Length != 4 || !userGuess.All(char
        .IsDigit))
39     {
40         Console.WriteLine("Invalid input! Please enter
            exactly 4 digits.");
41         continue;
42     }
43
44     string feedback = ProvideFeedback(userGuess);
45     Console.WriteLine("Feedback: " + feedback);
46
47     if (feedback == "++++") // All digits correct
48     {
```

Welcome to the Guessing Number Game!
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Feedback: -

Enter your 4-digit guess:
2567
Feedback: - -

Enter your 4-digit guess:
6892
Feedback: ---++

Enter your 4-digit guess:
8692
Feedback: ++++
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Player: Sathasivam
Guesses: 4
Time Taken: 65 seconds
Score: 5.08

--- Code Execution Successful ---

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```
45 Console.WriteLine("Feedback: " + feedback);
46
47 if (feedback == "++++") // All digits correct
48 {
49     correctGuess = true;
50     stopwatch.Stop();
51     Console.WriteLine($"Congratulations {playerName}!
        You guessed the number in {numberOfGuesses}
        guesses and {stopwatch.Elapsed.TotalSeconds:F2}
        seconds.");
52
53     // Save result and display the best score
54     SaveResult(playerName, numberOfGuesses, (int
        )stopwatch.Elapsed.TotalSeconds);
55     DisplayBestScore();
56 }
57 }
58 }
59
60 // Generate a random 4-digit number with no repeated digits
61 static string GenerateRandomNumber()
62 {
63     Random random = new Random();
64     string result;
65     do
66     {
67         result = random.Next(1000, 10000).ToString(); // Random
```

Output

Clear

Welcome to the Guessing Number Game!
Enter your name: Sathasivam

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Run

```
60 // Generate a random 4-digit number with no repeated digits
61 static string GenerateRandomNumber()
62 {
63     Random random = new Random();
64     string result;
65     do
66     {
67         result = random.Next(1000, 10000).ToString(); // Random
68             4-digit number
69     } while (result.Distinct().Count() != 4); // Ensure all
70         digits are unique
71     return result;
72 }
73 // Provide feedback for the guess
74 private static string ProvideFeedback(string guess)
75 {
76     char[] feedback = new char[4];
77
78     for (int i = 0; i < 4; i++)
79     {
80         if (guess[i] == _computerNumber[i])
81         {
82             feedback[i] = '+';
83         }
84         else if (_computerNumber.Contains(guess[i]))
85         {
86             feedback[i] = '-';
87         }
88         else
89         {
90             feedback[i] = ' ';
91         }
92     }
93     return string.Join("", feedback);
94 }
```

Output

Clear

Welcome to the Guessing Number Game!
Enter your name: Sathasivam

Enter your 4-digit guess:
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Run

```
1 // Guessing Number Game
2
3 using System;
4 using System.Collections.Generic;
5 using System.Linq;
6 using System.Text;
7 using System.Threading.Tasks;
8
9 namespace GuessingNumberGame
10 {
11     class Program
12     {
13         static int _computerNumber = 1234;
14         static List<PlayerResult> playerResults = new List<PlayerResult>();
15         static string[] feedback = new string[4];
16
17         static void Main(string[] args)
18         {
19             Console.WriteLine("Welcome to the Guessing Number Game!");
20             Console.WriteLine("Enter your name: Sathasivam");
21
22             Console.WriteLine("Enter your 4-digit guess:");
23             string guess = Console.ReadLine();
24             Console.WriteLine("Feedback: -");
25
26             Console.WriteLine("Enter your 4-digit guess:");
27             guess = Console.ReadLine();
28             Console.WriteLine("Feedback: - -");
29
30             Console.WriteLine("Enter your 4-digit guess:");
31             guess = Console.ReadLine();
32             Console.WriteLine("Feedback: ---+");
33
34             Console.WriteLine("Enter your 4-digit guess:");
35             guess = Console.ReadLine();
36             Console.WriteLine("Feedback: ++++");
37             Console.WriteLine("Congratulations Sathasivam! You guessed the number in 4 guesses and 65.16 seconds.");
38
39             Console.WriteLine("Best Score:");
40             Console.WriteLine("Player: Sathasivam");
41             Console.WriteLine("Guesses: 4");
42             Console.WriteLine("Time Taken: 65 seconds");
43             Console.WriteLine("Score: 5.08");
44
45             Console.WriteLine("Code Execution Successful!");
46         }
47
48         static void CalculateScore(int guesses, double timeTaken)
49         {
50             double score = 100 - (guesses * 10) - (timeTaken / 10);
51         }
52
53         static void SaveResult(string playerName, int guesses, int timeTaken)
54         {
55             playerResults.Add(new PlayerResult(playerName, guesses, timeTaken));
56         }
57     }
58 }
```

Output

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Enter your name: Sathasivam

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```
103         Guesses = guesses,
104         TimeTaken = timeTaken,
105         Score = score
106     });
107 }
108
109 // Calculate score based on guesses and time taken
110 static double CalculateScore(int guesses, int timeTaken)
111 {
112     // The score is a weighted combination of the number of
113     // guesses and the time taken
114     return guesses + (timeTaken / 60.0); // example: time in
115     // minutes
116 }
117
118 // Display the best score (lowest score) from the playerResults
119 // list
120 static void DisplayBestScore()
121 {
122     if (playerResults.Count == 0)
123     {
124         Console.WriteLine("No results to display.");
125         return;
126     }
127
128     var bestScore = playerResults.OrderBy(r => r.Score).First
129     ();
```

Output

Clear

```
Welcome to the Guessing Number Game!
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```

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Run

```
116 // Display the best score (lowest score) from the playerresults
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117 static void DisplayBestScore()
118 {
119     if (playerResults.Count == 0)
120     {
121         Console.WriteLine("No results to display.");
122         return;
123     }
124
125     var bestScore = playerResults.OrderBy(r => r.Score).First
        ();
126
127     Console.WriteLine("\nBest Score:");
128     Console.WriteLine($"Player: {bestScore.PlayerName}");
129     Console.WriteLine($"Guesses: {bestScore.Guesses}");
130     Console.WriteLine($"Time Taken: {bestScore.TimeTaken}
        seconds");
131     Console.WriteLine($"Score: {bestScore.Score:F2}");
132 }
133 }
134
135 public class PlayerResult
136 {
137     public string PlayerName { get; set; }
138     public int Guesses { get; set; }
139     public int TimeTaken { get; set; }
```

Output

Clear

Welcome to the Guessing Number Game!

Enter your name: Sathasivam

Enter your 4-digit guess:

1234

Feedback: -

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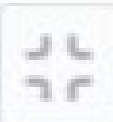
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Main.cs



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Run

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120     {
121         Console.WriteLine("No results to display.");
122         return;
123     }
124
125     var bestScore = playerResults.OrderBy(r => r.Score).First
126         ();
127
128     Console.WriteLine("\nBest Score:");
129     Console.WriteLine($"Player: {bestScore.PlayerName}");
130     Console.WriteLine($"Guesses: {bestScore.Guesses}");
131     Console.WriteLine($"Time Taken: {bestScore.TimeTaken}
132         seconds");
133     Console.WriteLine($"Score: {bestScore.Score:F2}");
134 }
135 public class PlayerResult
136 {
137     public string PlayerName { get; set; }
138     public int Guesses { get; set; }
139     public int TimeTaken { get; set; }
140     public double Score { get; set; }
141 }
142
```

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