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...urceC#\LogicalOperations\LogicalOperations\Program.cs
```

```
1
```

```
1 using System;
2
 3 namespace LogicalOperations
 4 {
       internal class Program
 5
 6
7
           static void Main(string[] args)
8
9
              Console.ForegroundColor = ConsoleColor.Blue;
10
              Console.WriteLine
11
                 ("=======");
              Console.WriteLine("Hi, This program was written by Mohamad
12
                 Saleh Hajkarami");
              Console.WriteLine("This program performs logical operations:
13
                 AND, OR, XOR");
               Console.WriteLine
14
                 ("=======");
15
              Console.ResetColor();
16
              while (true)
17
18
19
                  try
                   {
20
21
22
                      Console.WriteLine("Please enter the first boolean value >
                      (true/false):");
23
                      string input1 = Console.ReadLine();
24
                      bool val1 = bool.Parse(input1.ToLower());
25
                      Console.WriteLine("Please enter the second boolean
26
                     value (true/false):");
27
                      string input2 = Console.ReadLine();
                      bool val2 = bool.Parse(input2.ToLower());
28
29
30
31
                      bool andResult = val1 && val2;
32
                      bool orResult = val1 || val2;
33
                      bool xorResult = val1 ^ val2;
34
                      Console.ForegroundColor = ConsoleColor.Green;
35
                      Console.WriteLine($"AND result (val1 AND val2):
36
                      {andResult}");
37
                      Console.WriteLine($"OR result (val1 OR val2):
                     {orResult}");
                      Console.WriteLine($"XOR result (val1 XOR val2):
38
                      {xorResult}");
39
                      Console.ResetColor();
40
```

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...urceC#\LogicalOperations\LogicalOperations\Program.cs
                                                                        2
41
42
                 }
43
                 catch (FormatException)
44
                     Console.ForegroundColor = ConsoleColor.Red;
45
                     Console.WriteLine("Invalid input! Please enter 'true'
46
                    or 'false'.");
47
                     Console.ResetColor();
48
                     Console.WriteLine("Let's try again...");
49
                 }
              }
50
51
52
53
              Console.ForegroundColor = ConsoleColor.Green;
54
              Console.WriteLine
                ("=======");
              Console.WriteLine("Thank you for using this program!");
55
              Console.WriteLine
56
                ("=======");
57
              Console.ResetColor();
58
          }
59
       }
60 }
61
```