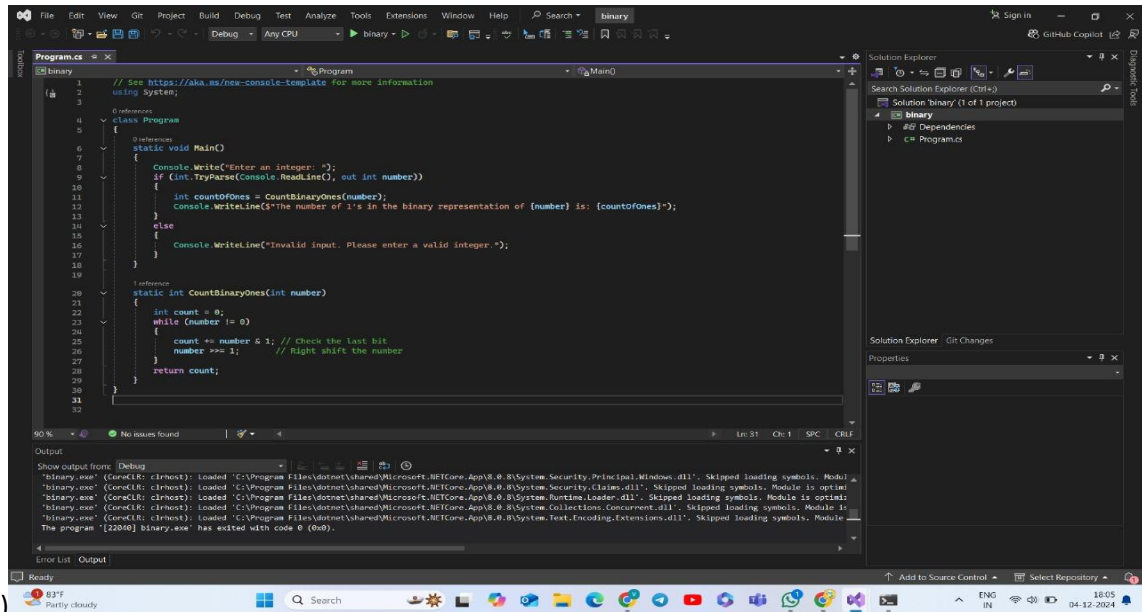


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.NET EXAM:

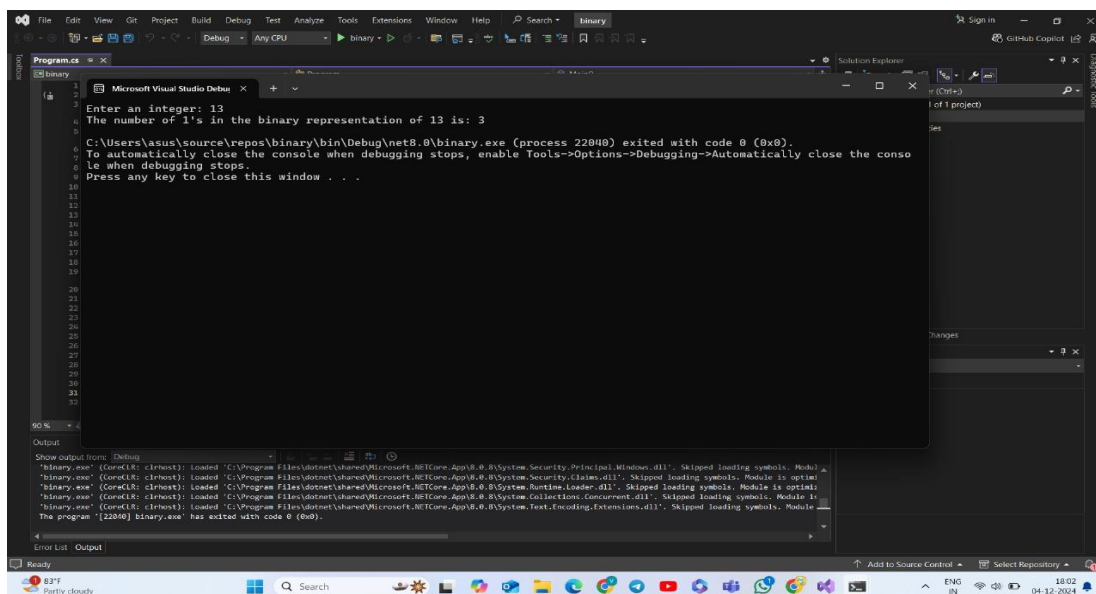


```
1 // See https://aka.ms/new-console-template for more information
2 using System;
3
4 class Program
5 {
6     static void Main()
7     {
8         Console.WriteLine("Enter an integer:");
9         if (int.TryParse(Console.ReadLine(), out int number))
10         {
11             int countOfOnes = CountBinaryOnes(number);
12             Console.WriteLine($"The number of 1's in the binary representation of {number} is: {countOfOnes}");
13         }
14         else
15         {
16             Console.WriteLine("Invalid input. Please enter a valid integer.");
17         }
18     }
19
20     static int CountBinaryOnes(int number)
21     {
22         int count = 0;
23         while (number != 0)
24         {
25             count += number & 1; // Check the last bit
26             number >>= 1; // Right shift the number
27         }
28         return count;
29     }
30 }
31
32
```

Output

```
binary.exe (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\8.0.8\System.Security.Principal.Windows.dll'. Skipped loading symbols. Module is optimized.
binary.exe (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\8.0.8\System.Security.Claims.dll'. Skipped loading symbols. Module is optimized.
binary.exe (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\8.0.8\System.Runtime.Loader.dll'. Skipped loading symbols. Module is optimized.
binary.exe (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\8.0.8\System.Collections.Concurrent.dll'. Skipped loading symbols. Module is optimized.
binary.exe (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\8.0.8\System.Text.Encoding.Extensions.dll'. Skipped loading symbols. Module is optimized.
The program '[22000] binary.exe' has exited with code 0 (0x0).
```

1)



```
1
2
3 Enter an integer: 13
4 The number of 1's in the binary representation of 13 is: 3
5
6 C:\Users\sasus\source\repos\binary\bin\Debug\net8.0\binary.exe (process 22040) exited with code 0 (0x0).
7 To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
8 Press any key to close this window . . .
9
10
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31
32
```

Output

```
binary.exe (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\8.0.8\System.Security.Principal.Windows.dll'. Skipped loading symbols. Module is optimized.
binary.exe (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\8.0.8\System.Security.Claims.dll'. Skipped loading symbols. Module is optimized.
binary.exe (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\8.0.8\System.Runtime.Loader.dll'. Skipped loading symbols. Module is optimized.
binary.exe (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\8.0.8\System.Collections.Concurrent.dll'. Skipped loading symbols. Module is optimized.
binary.exe (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\8.0.8\System.Text.Encoding.Extensions.dll'. Skipped loading symbols. Module is optimized.
The program '[22040] binary.exe' has exited with code 0 (0x0).
```

2)

