C# calculator

Intro

We want to have the opportunity to see how you might deal with a real-world coding task. At your interview we would like you to present your solution (via screen share) to the tasks, explain what you've done and show us anything of note in your code. There are no right or wrong answers, the aim is to see your ability following the tutorial, the approaches you use to solve the problem and for us to discuss the pros and cons during the interview. We will expect you to present for 15-20 minutes with questions along the way from us. Do make sure you read through everything here before you get started.

Scenario

We need to create a basic calculator using C# code.

Tasks

1. Following this tutorial:

   a. Create a console application using Visual Studio (you will find a link to download Visual Studio within the tutorial).
   b. Create an app.
   c. Add the calculator code.
   d. Add functionality to the calculator.
   e. Debug the app and fix the issues.
   f. Implement improvements to the application (as suggested in the "Revise the code" section).

2. We would like to keep the results for each execution of the application. Would you be able to implement an improvement to achieve this goal?

3. Do you think there are other additional improvements or changes that could be done to the app? Could you implement and/or present them to us in the interview?

General guidance

- You don't need to deploy your solution anywhere, you can show us it running on your machine via screenshare.
- We are interested in your ability to follow the tutorial, your experience creating the application and what you have learnt along the process.
- Where we have not specified any implementation details, it is up to you to decide how to go about it.
- We will discuss your solutions and explore how you have gone about the tasks in your interview.
- We do not expect your code to be perfect, what you create will be the basis for our conversation, we are interested in how you approach coding solutions.
- You do not need to prepare a slide presentation (unless you want to).