

I decided that the expression should be split by regex that separates digits and operators which are saved in List. After this, the program create for every single item in list proper object(digit or operator). Objects are saved in new list. I use loop to solve whole expression. At the beginning, the program calculate division and multiplication operations, then of adding and subtracting.

I tried to keep SOLID principles and clean code as far as I could. To make the program scalable, I use an abstract factory to create a specific calculator. Adding a calculator that can handle with brackets is easy because we need to add a class that implements specific interface. I tried to create a function that would be reusable.