Labwork – (Arithmetic operations)

1. Write a program that asks the user to enter two fractions, and then displays their sum in fractional form (You don’t need to reduce it to lowest terms). The interaction with the user might look like this (where the characters in bold are user input with cin and the rest are program output using cout):
   Enter first fraction: 1/2
   Enter second fraction: 2/5
   Sum:
   9
   ___
   10

   (Pay attention to output format)

   Hint: You can take advantage of the fact that the extraction operator (>>) can be chained to read in more than one quantity at once (dummychar can be declared as a char variable):
   cin >> a >> dummychar >> b;

   Adding Formula: \( \frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd} \)

2. In this question, you will explore different common uses of modulus (%) operator.
   1. Extract individual digits of an integer.
      - Declare and initialize an integer with 12345 as value.
      - Output the value of 12345 / 100 % 10.
   2. Test divisibility of a number.
      - Output the value of 12345 % 3, 12345 % 4 and 12345 % 5 respectively.
      - If the value is 0, it means that the value on the left is divisible by the number on the right.
      - If the value is any value other than 0, it means the value on the left is NOT divisible by the number on the right.