Exercise 1

We often write dates in the following format: day.month.year. Now you need to create a getDateFormat function that will take 2 parameters:

date. the date object to convert to the given day.month.year text format.

separator. Day, month and year separator. By default, it should be equal to the dot “.”. If a dash “-” is passed as a separator, then the format should already be “day-month-year”.

Also, note that the month number in JavaScript counts from 0 to 11. In addition, if the day or month returns a single digit, then you need to add 0 to it. That is, the result should not be “5.5.2001”, but “05.05 .2001”.

Task 2

Birthday is a significant holiday for every person. And when is your birthday? I'm sure you remember this date. How many days are left until your birthday? But this is already more difficult.

Your task now is to create a getDaysBeforeBirthday function that will return the number of days until the next birthday. This function must take 1 parameter nextBirthdayDate which is a date object and points to the date of your next birthday. The year should be the closest to the current date, not the year of your birth.

It is also recommended to create a helper function convertMsToDays that converts milliseconds to days. Use Math.round to round the final number.

Task 3

In JavaScript, a date object can accept a timestamp, i.e. number of milliseconds since January 1, 1970 00:00:00 UTC. Given the number of milliseconds, a date object is generated.

Because of this, to add a certain number of milliseconds, you can use the following notation: new Date(Date.now() + 5000), where 5000 is milliseconds. As a result, we will get a date that is 5000 milliseconds more than the current one.

Using this knowledge, you need to create an addDays function that takes 2 parameters:

date. Date object.

days. Number of days, data type number, by default this parameter must be equal to one.

You need to add a certain number of days to the date parameter, which is passed to the days parameter. The addDays function should return the updated date.

Hint: don't forget that the timestamp passed to date must be in milliseconds.