# Exercises about data types

• Solve them in Visual Studio or use <a href="https://dotnetfiddle.net/">https://dotnetfiddle.net/</a>.

### Exercise 03.01

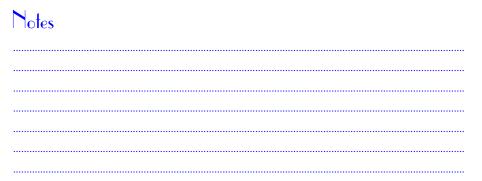
- Loop from 1 till 100.
- If the number can be divided by 3, show it on a new line in the console like this: "x divided by 3 is y".
- Show message "Hit any key to stop".



Use the operator % (modulo).

### Example

```
3 divided by 3 is 1 6 divided by 3 is 2 9 divided by 3 is 3 ... 96 divided by 3 is 32 99 divided by 3 is 33 Hit any key to stop
```





### *Exercise 03.02*

• Define a variable that contains the current date and time.



Use DateTime.Now (Date with time).
Use DateTime.Today (only date).

- Show this as a text in the console.
- Now get from that string only the year and show that to the console.



Use substring to get a specific part of the string.

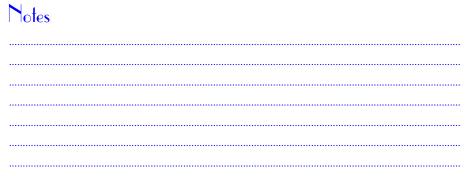
I want you to start this exercise by using "Substring". Later, try to find other solutions.

This is an exercise on aText.Substring(blablabla).

- Show message "Hit any key to stop".
- Can you find other ways to have exactly the same result?

#### Example

06/05/2021 15:45:32 2021 Hit any key to stop





# *Exercise 03.03*

- Create 2 datetime variables.
- One with the current day.
- One with your birthdate.



Use Convert.ToDateTime.

Start with hardcoding your birthday (Year - Month - Day).

• Calculate the number of days you are alive.



If you know the hours and minutes. Give it a try.



Extra exercise.

Try to ask the birthday with the console. (Year – Month – Day)

Try to calculate the correct age in years (difficult to be 100% correct in all situations).

Notes	



#### Documentation & Information

# *Exercise 03.04*

- Ask for an age in the console with a nice message.
- When the age is younger than 18, show the message: "Sorry, you are too young to enter this bar".
- When the age is not younger than 18, show the message "Welcome".



Add a routine (check) to see if the age is a number.

Repeat the question as long you don't type a number.

### Example 1

What is your age? 17 Sorry, you are too young to enter this bar

### Example 2

What is your age? 19 Welcome

Notes	

