

Exercises about data types

- Solve them in Visual Studio or use <https://dotnetfiddle.net/>.

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
```

Notes

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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
```

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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).

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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
```

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