

Sequence assignments

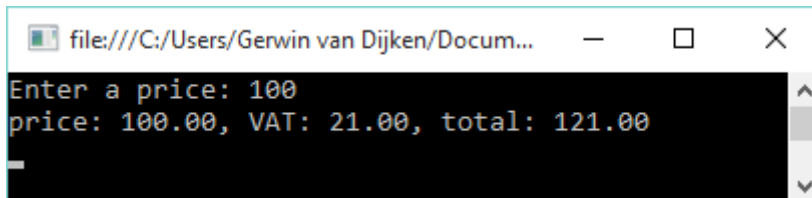
When creating the program code, you must apply the following basic principles:

- create a separate project for each assignment;
- create one solution for each week containing the projects for that week.

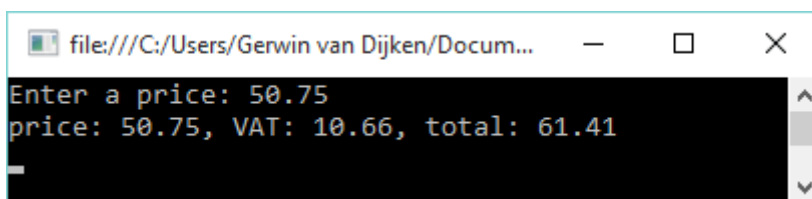
Assignment 1 (Console Application)

Enter a price. Determine the VAT (21%) on this price.

Print the price, VAT, and the price + VAT.



```
file:///C:/Users/Gerwin van Dijken/Docum...
Enter a price: 100
price: 100.00, VAT: 21.00, total: 121.00
```

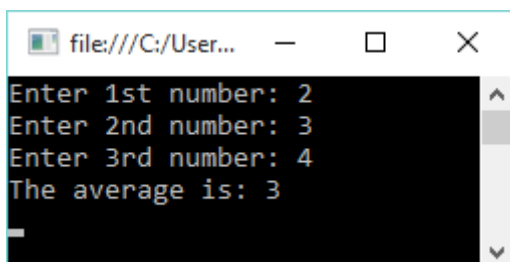


```
file:///C:/Users/Gerwin van Dijken/Docum...
Enter a price: 50.75
price: 50.75, VAT: 10.66, total: 61.41
```

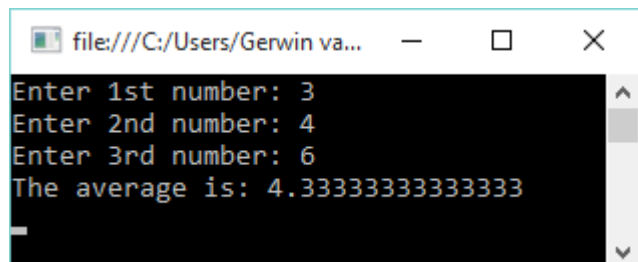
Assignment 2 (Console Application)

Enter three numbers. Calculate the average value of these numbers. Print the average value. NB:

Division results in a floating point number!



```
file:///C:/User...
Enter 1st number: 2
Enter 2nd number: 3
Enter 3rd number: 4
The average is: 3
```

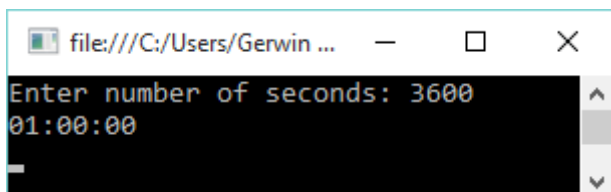


```
file:///C:/Users/Gerwin va...
Enter 1st number: 3
Enter 2nd number: 4
Enter 3rd number: 6
The average is: 4.333333333333333
```

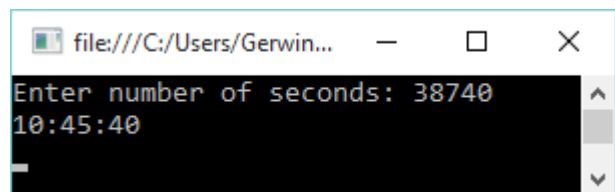
Assignment 3 (Console Application)

Enter a number of seconds. Show this value as hours, minutes and seconds (hh:mm:ss, as shown on a digital alarm clock).

Hint: First determine the number of hours and subtract this from the number of seconds, then determine the number of minutes and subtract this from the number of seconds. Use operator / to divide numbers (if used for whole numbers, it also produces a whole number as the result, so after: hours = 130 / 60, hours have value 2).



```
file:///C:/Users/Gerwin ...
Enter number of seconds: 3600
01:00:00
```



```
file:///C:/Users/Gerwin...
Enter number of seconds: 38740
10:45:40
```

Assignment 4 (Windows Application)

Enter a price. Determine the VAT (21%) on this price.
Print the price, VAT, and the price + VAT.

Sequence - assignment 4

Enter a price:

Price:	2595.00
VAT:	544.95
Total:	3139.95

Sequence - assignment 4

Enter a price:

Price:	123.50
VAT:	25.94
Total:	149.44

Assignment 5 (Windows Application)

Enter three numbers. Calculate the average value of these numbers. Print the average value. NB: Division results in a decimal number!

Sequence - assignment 5

Number 1:

Number 2:

Number 3:

Average	3.000
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Sequence - assignment 5

Number 1:

Number 2:

Number 3:

Average	4.333
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Assignment 6 (Windows Application)

Enter a number of seconds. Show this value as hours, minutes and seconds (hh:mm:ss).

Sequence - assignment 6

Seconds:

hours : minutes : seconds

01:00:00

Sequence - assignment 6

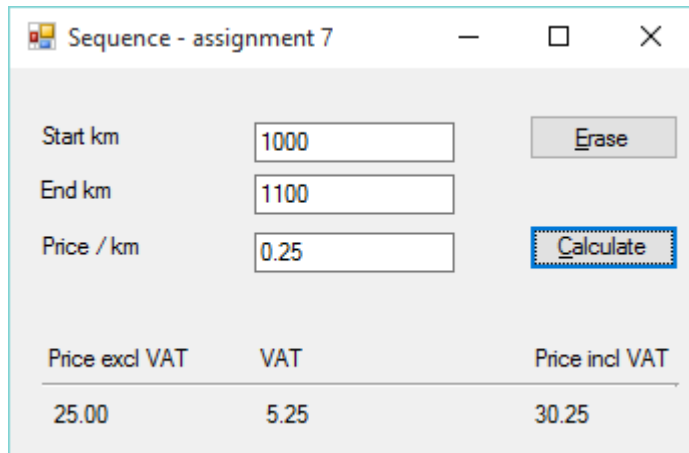
Seconds:

hours : minutes : seconds

10:45:40

Assignment 7 (Windows Application)

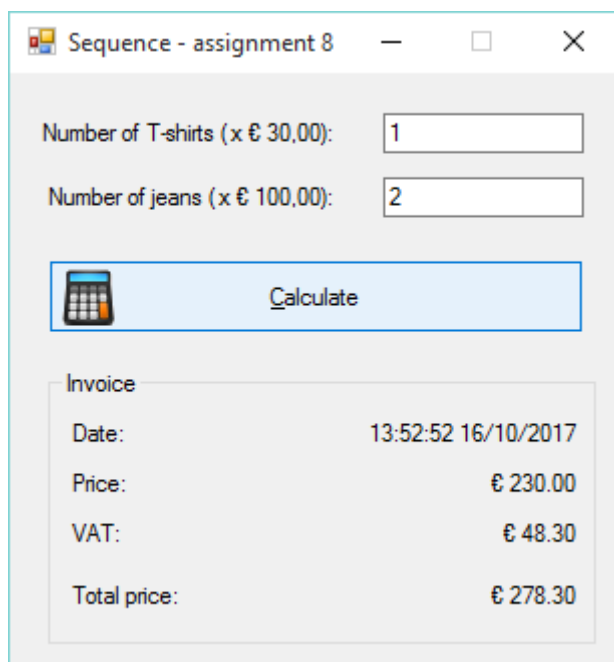
Create a car rental invoice. The amount to be paid is based on the number of kilometres shown on the odometer at the beginning and end of the rental period and the agreed kilometre rate, plus 21% VAT. Click on the button 'Calculate amounts', and the program will calculate the amount to be paid, excluding VAT, the VAT amount and the amount including VAT. These amounts are then shown in three labels, with two digits after the decimal. The input and output fields are erased (cleared) by pressing the 'Erase' button.



Price excl VAT	VAT	Price incl VAT
25.00	5.25	30.25

Assignment 8 (Windows Application)

Create an application for a shop that sells T-shirts (€30) and jeans (€100) (these prices are constant values). The salesman is required to indicate how many T-shirts and jeans each customer purchases. The application calculates the price the customer should pay.



Invoice

Date: 13:52:52 16/10/2017

Price: € 230.00

VAT: € 48.30

Total price: € 278.30

- format the prices correctly;
- put the calculator icon on the button;
- see DateTime for the time;
- switch off the maximalisation button (as shown on the screenshot).