

Parašykite programą, kuri paverstų eurus į dolerius.

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Parašykite programą, kuri suskaičiuotų žmogaus BMI (body mass index), kai yra žinomas žmogaus ūgis ir svoris.

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### Simple heart rate limits calculator utility

Implement simple calculator utility-program, which can be used to calculate person's heart rate limits when doing aerobic exercise. The formula for calculating heart rate limits is  $(220 - \text{age}) * 0.85$  for upper limit and  $(220 - \text{age}) * 0.65$  for lower limit. For example heart rate limits for person aged 30 are  $(220 - 30) * 0.85 = 161.5$  and  $(220 - 30) * 0.65 = 123$ .

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### Salary calculator

Implement web-application, which can be used to calculate salaries. Total salary (net income) paid is gross income (asked from user) diminished by tax percentage (asked from user) and pension insurance payment (fixed percentage 4.30%).

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### Annuity calculator

Implement annuity calculator for web. Formula to calculate annuity for monthly payment is as follows:

$$\frac{i(1+i)^n}{(1+i)^n - 1} * K_0$$

$i$  = interest  
 $n$  = time in months  
 $K_0$  = capital

Example:

Capital	100 000 €	
Interest	5 %	$(5/100) = 0.05$
Time	10 Years	$(10 * 12) = 120 \text{ months}$

$$\frac{0.05 / 12 * (1 + 0.05 / 12)^{120}}{((1 + 0.05 / 12)^{120} - 1)} * 100\,000 = 1061 \text{ €}$$

You can also check out example from [SAMPO-pankki](#). Use [pow](#) function of PHP to perform powerage calculation.

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Parašykite programą, kuri paverstų kilometrus į mylias.

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Parašykite programą, kuri paverstų valandas į minutes ir sekundes.

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Parašykite programą, kuri iš duoto žmogaus amžiaus metais pasakytų kiek tai yra sekundėmis, minutėmis, valandomis, dienomis.

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### Thermometer converter

Implement calculator to convert temperatures between Fahrenheit and Celcius. Formulas for calculation can be found for example from [here](#).

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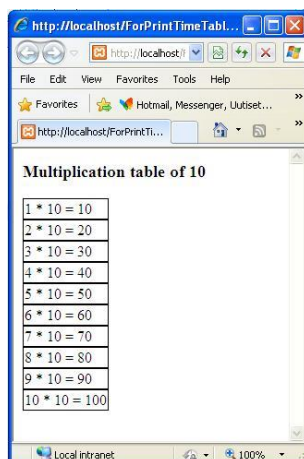
### (Ski-)Stick height calculation

Implement calculator that can be used to calculate stick height for cross-country skiing or nordic walk. Formula:

- Cross-country skiing (free-style): person height \* 0.9
  - Cross-country skiing (classical style): person height \* 0.85
  - Nordic walk: person height \* 0.68;
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### Print multiplication table

Implement PHP-script (no html is needed) to print out multiplication table of number 10 (see picture below). User for-structure and table html-element.



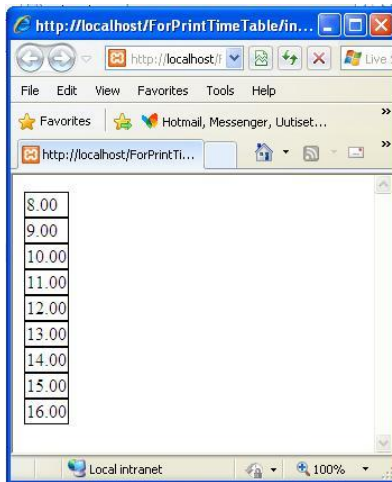
The screenshot shows a web browser window with the address bar displaying 'http://localhost/ForPrintTimeTabl...'. The browser's menu bar includes 'File', 'Edit', 'View', 'Favorites', 'Tools', and 'Help'. Below the menu bar, there are 'Favorites' and 'Hotmail, Messenger, Outlook...' links. The main content area displays the title 'Multiplication table of 10' followed by a table of multiplication results for the number 10. The table has 10 rows, each containing a multiplication equation. The status bar at the bottom shows 'Local intranet' and a zoom level of '100%'.

1 * 10 = 10
2 * 10 = 20
3 * 10 = 30
4 * 10 = 40
5 * 10 = 50
6 * 10 = 60
7 * 10 = 70
8 * 10 = 80
9 * 10 = 90
10 * 10 = 100

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## Print timetable

Implement PHP-script to print out times from 8 to 16 to HTML-table.



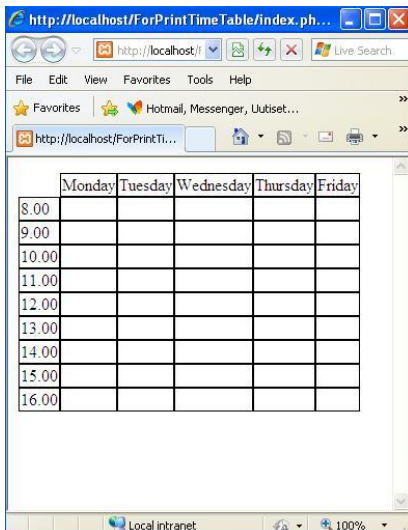
A screenshot of a web browser window displaying a vertical list of times from 8.00 to 16.00. The browser's address bar shows 'http://localhost/ForPrintTimeTable/in...'. The page content is a single column of text boxes containing the times: 8.00, 9.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, and 16.00. The status bar at the bottom indicates 'Local intranet' and '100%' zoom.

8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00

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## Print timetable with day of week

Modify previous exercise so that also day of weeks are printed to page necessary amounts of columns are printed out to each row. Use conditional and loop -structures to implement exercise.



A screenshot of a web browser window displaying a timetable grid. The browser's address bar shows 'http://localhost/ForPrintTimeTable/index.ph...'. The grid has columns for the days of the week (Monday, Tuesday, Wednesday, Thursday, Friday) and rows for the times from 8.00 to 16.00. The status bar at the bottom indicates 'Local intranet' and '100%' zoom.

	Monday	Tuesday	Wednesday	Thursday	Friday
8.00					
9.00					
10.00					
11.00					
12.00					
13.00					
14.00					
15.00					
16.00					

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## Fixed amortization schedule

Implement application to calculate amortization mortgage table.

Example calculation:

Capital: 100 000

Interest: 5 % / 12 = 0.416

Time: 10 years ( $10 * 12$ ) = 120 months

Fixed payment for every month is  $100\,000/120 = 833.33$  (capital / time in months).

Interest payment is diminished every month:

1st interest:  $100\,000 / 100 * 0.416 = 416$ , total payment for the month is  $833.33 + 416 = 1250$

2nd interest:  $(100\,000 - 833.33) / 100 * 0.416 = 412.5$ , total payment for the month  $833.33 + 412.5 = 1246$

3rd interest:  $(99166.67 - 833.33) / 100 * 0.416 = 409$ , total payment for the month  $833.33 + 409 = 1243$

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