

HTML AND PHP TEST — WITH COMPUTER

Please write your answers in files stored in a folder with your name.

Exercise 1

Computer: ✓

Listing 1 contains an inches to centimeters converter that we have seen in works 6 and 7. You can download it at http://www.barsamian.am/2022-2023/S7ICTB/Test1_ExoB1.txt. Modify this PHP script so that it creates a variable holding a temperature value in Celsius degrees (°C), and converts it to Fahrenheit degrees (°F). The conversion formula to use is:

$$F = \frac{9}{5} \times C + 32$$

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1 <!doctype html>
2 <html>
3 <head>
4   <title>Inches to Centimeters Converter</title>
5 </head>
6 <body>
7   <?php
8     $one_inch = 2.54;
9     $size_in_inches = 14;
10    $size_in_cms = $size_in_inches * $one_inch;
11    echo "<p>Your screen measures " . $size_in_cms . " centimeters.";
12  ?>
13 </body>
14 </html>

```

Listing 1: PHP exercise 1

Exercise 2

Computer: ✓

Write an HTML form with a scrolling menu that contains in total four choices, and where the initial choice is empty. After this menu, this document should contain a link to itself.

Exercise 3

Computer: ✓

Using the relationship $distance = speed \times time$ ($distance$ in km, $speed$ in km/h and $time$ in h), write a PHP function that takes as arguments $speed$ and $time$, and returns the $distance$.

Use this function to find the distance travelled by a cyclist who rides at 30 km/h during 15 minutes.

BONUS: Use this function to find the distance travelled by an aircraft departing from London, England, at 9:30 P.M. (local time) and arriving in Bombay, India, at 11 A.M. (local time) the next day. Assume the aircraft flies at 910 km/h and the time zone difference between London and Bombay is 4.5 hours.

Exercise 4

Computer: ✓

Please go on the webpage of our course, <http://www.barsamian.am/2022-2023/S7ICTB/>. Check in the HTML comments for the instructions of this exercise.

Exercise 5

Computer: ✓

Write an HTML document that outputs a formatted restaurant bill, in a table. The table should have one row for each item of the lunch. The table should have four columns for the name, price (without VAT), quantity, and total cost of each row. This bill should contain three pizzas at 9€ each, one chocolate milkshake at 3€, and two glasses of wine at 4€ each (those prices are without VAT).

BONUS: Write a PHP program that computes the total cost of this restaurant meal (VAT rate is 12%; round at the nearest 0.01€). Modify your table to add one line with the total (without VAT) and one line, in red, with the post-VAT total, computed by your PHP program.