

CSc11300 – Programming Languages In-Class Exercise 2

Send your codes to the instructor via e-mail. Make a script file that includes example results as comments. Add your name and the session, (morning/afternoon) (ayuksel@ccny.cuny.edu) For the formulas you can use the Internet but Internet copy-paste answers will be scored 0 as well as anonymous files you send. Just mathematical solutions will not be accepted.

- A. Write a function to convert minutes to milliseconds.
- B. Define a function to find the average of two exam scores.
- C. Use *math* module import to use square root and compute the roots of a quadratic equation.

$$\Delta = b^2 - 4ac, x = \frac{-b \pm \sqrt{\Delta}}{2a}$$

- D. Define a function to convert Kelvin to Réaumur, then Réaumur to Celsius. Use different functions, and call one inside the other, if necessary.
- E. Say you have a cube with side of n . And you have some amount of marbles (round, sphere) with radius $n/4$. How many marbles can you fit in the cube? Obtain the solution with the use of functions.
- F. Write a function to give the following output: (PS: `\n`, `\t`, and loops are not allowed)

^	-	^	-	^^	-	^	-	^^	-	^	-	^^	-	^	-	^^
i				i				i				i				i
i				i				i				i				i
i				i				i				i				i
i				i				i				i				i
^	-	^	-	^^	-	^	-	^^	-	^	-	^^	-	^	-	^^
i				i				i				i				i
i				i				i				i				i
i				i				i				i				i
i				i				i				i				i
^	-	^	-	^^	-	^	-	^^	-	^	-	^^	-	^	-	^^
i				i				i				i				i
i				i				i				i				i
i				i				i				i				i
i				i				i				i				i
^	-	^	-	^^	-	^	-	^^	-	^	-	^^	-	^	-	^^
i				i				i				i				i
i				i				i				i				i
i				i				i				i				i
i				i				i				i				i
^	-	^	-	^^	-	^	-	^^	-	^	-	^^	-	^	-	^^