

Assignment 1

Clean Product Names .1

:Input
[" LAPTOP ", "phone ", " Tablet", "CAMERA "]

:Output
['Laptop', 'Phone', 'Tablet', 'Camera']

Convert Celsius to Fahrenheit .2

Formula: $F = (9/5) \times C + 32$

:Input
[40 ,30 ,20 ,10 ,0]

:Output
[104.0 ,86.0 ,68.0 ,50.0 ,32.0]

Square Each Number Then Add 10 .3

:Input
[5 ,4 ,3 ,2 ,1]

:Output
[35 ,26 ,19 ,14 ,11]

Extract First and Last Character of Each Word .4

:Input
["python", "lambda", "programming", "map", "function"]

:Output
[('p', 'n'), ('l', 'a'), ('p', 'g'), ('m', 'p'), ('f', 'n')]

(Increase Each Mark by 5% (rounded .5

:Input
[[92 ,76 ,88] ,[100 ,60 ,90] ,[70 ,80 ,45]]

:Output
[[97 ,80 ,92] ,[105 ,63 ,94] ,[74 ,84 ,47]]

Normalize Numbers Between 0 and 1 .6

:Formula
$$(x - \min) / (\max - \min)$$

:Input
[50 ,40 ,30 ,20 ,10]

:Output
[1.0 ,0.75 ,0.5 ,0.25 ,0.0]

Extract Word Lengths in Each Sentence .7

:Input
["Hello world", "Map and lambda", "This is a test"]

:Output
[[4 ,1 ,2 ,4] ,[6 ,3 ,3] ,[5 ,5]]