

CS118 Programming Assignment

Coffee



According to the International Coffee Organization¹, Brazil, Indonesia, and Vietnam were the recent largest producers of coffee:

Country	2010/2011 (1000's of bags)	2011/2012 (1000's of bags)	2012/2013 (1000's of bags)
Brazil	48,095	43,484	50,826
Indonesia	9,129	7,287	12,730
Vietnam	19,467	24,058	22,000

The ICO now needs you to prepare an update program for them. Your Python program will ask the user to provide 2013/2014 data for each of these three countries and display the results in a chart (see below) which includes the old and new data, and the percentage change between the 2012/2013 year and the data you just collected. The data should be requested in units of 1000's of bags, just like previous data. Store all values in variables and use only variables (no constants) in your printing.

Be sure your output has the same spacing and alignment as this sample run (including the spacing between input and output):

```
Brazil's 2013/2014 exports (1000's of bags): 54098
Indonesia's 2013/2014 exports (1000's of bags): 11700
Vietnam's 2013/2014 exports (1000's of bags): 18032
```

Country	2010/2011	2011/2012	2012/2013	2013/2014	% Change
Brazil	48095	43484	50826	54098	6.4%
Indonesia	9129	7287	12730	11700	-8.1%
Vietnam	19467	24058	22000	18032	-18.0%

[Caution: When performing a division in Python, an integer divided by an integer results in an integer – that is, the result is truncated to an integer. One way to handle this is to convert one of the two integers to a float either by multiplication by a float or by typecasting.]



Extra Credit (10%):

The pounds of coffee in bag varies by country. Make a **copy** of your original program and extend it: ask the user for pounds of coffee for each country then recompute the production values assuming the provided weights for the bags of that country, displaying a second chart as below. Submit the two files in a single ZIP file.

```
How many pounds in Brazilian bags? 100
How many pounds in Indonesian bags? 105
How many pounds in Vietnamese bags? 95
```

Country	2010/2011	2011/2012	2012/2013	2013/2014	% Change
Brazil	4.81e+09#	4.35e+09#	5.08e+09#	5.41e+09#	6.4%
Indonesia	9.59e+08#	7.65e+08#	1.34e+09#	1.23e+09#	-8.1%
Vietnam	1.85e+09#	2.29e+09#	2.09e+09#	1.71e+09#	-18.0%

¹ http://www.ico.org/new_historical.asp