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ECON 106 – ASSIGNMENT I

Using Graphs to Describe Data

Q1) Suppose that your ECON102 instructor wants to see the main expenditure groups weights of the Consumer Price Index for 2022. When you visit [“https://www.tuik.gov.tr/”](https://www.tuik.gov.tr/) you can find the data about “inflation and price.” According to Turkstat, the main weights expenditures of CPI:

Main expenditure groups	Weights
01 Food and non-alcoholic beverages	25.94
02 Alcoholic beverages and tobacco	4.88
03 Clothing and footwear	5.87
04 Housing	15.36
05 Furnishings, household equipment	8.64
06 Health	3.25
07 Transportation	15.49
08 Communication	4.64
09 Recreation and culture	3.01
10 Education	2.28
11 Hotels, cafes and restaurants	5.91
12 Miscellaneous goods and services	4.73

Using the data in the sheet “Q1”:

- i) Construct a pie chart. Display the first 8 observations of the variable 'Weights'. Additionally, find its maximum, minimum, and mean values.
- ii) Construct a bar chart.

Q2)

- i) Use a time-series plot to graph the inflation rate in Turkey from January 2004 to December 2020. Sheet “Q2”.
- ii) Use a time-series plot to graph GDP growth rate (in terms of U.S. dollar). Sheet “Q2.2”.