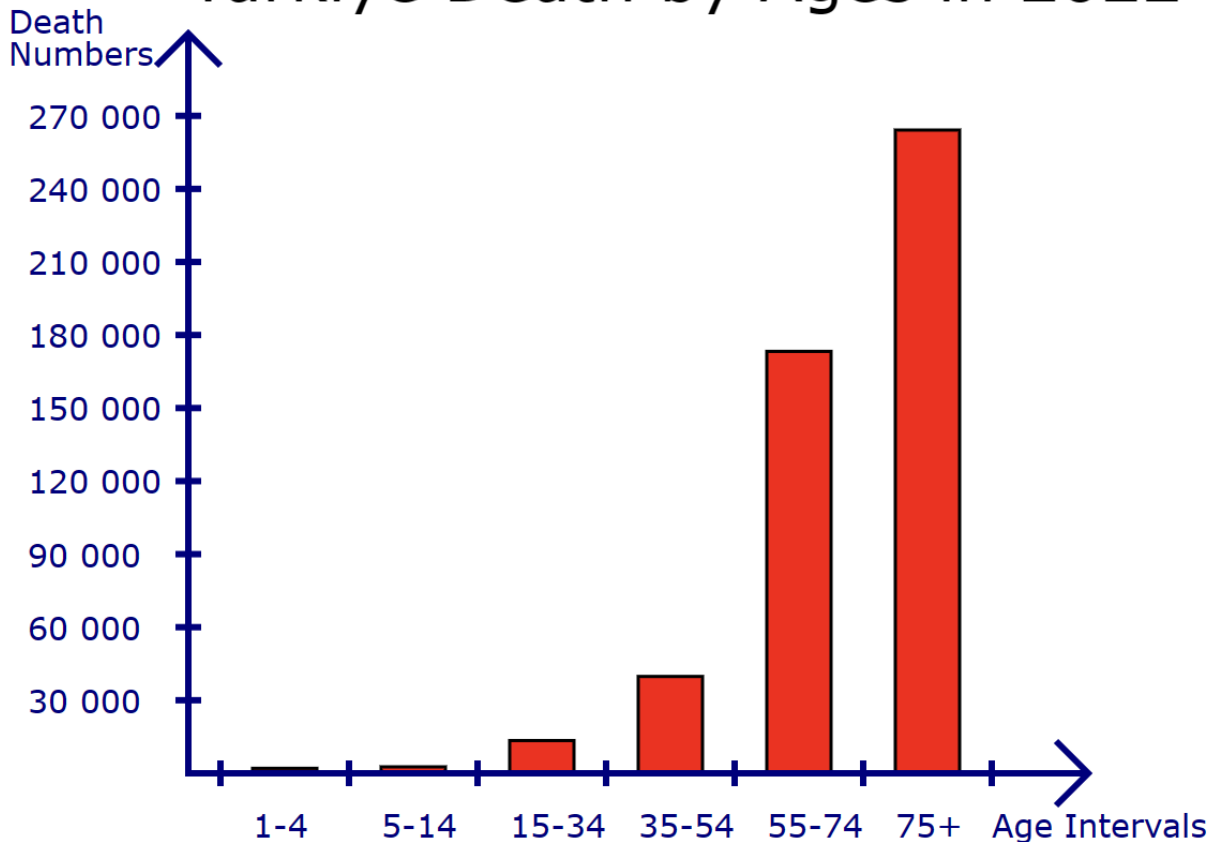


CS 405 Assignment 1 Report

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Turkiye Death by Ages in 2022



For the visualization, *Deaths by Age Group and Sex* dataset is chosen. Gender information is not used in this visualization.

Death numbers are stored in array in `deathByAges.js` file as ordered by age groups. Then the max value is stored in `maxDeathCount` variable. It is printed to the console as well. Then the table max height (which will be max number) is determined as 100 unit of distance. Since the 100 unit will be max value, for the other values, distance for each death is calculated (`DeathValAsDist`). This is used for other bars length as well as labeling numbers for deaths. Also, the `y` of ticks for every 30,000 deaths is calculated by the same `DeathValAsDist` variable.

For the base of the chart, `<path>` is used to draw line and for the arrows at the endpoints of paths. For the tick lines, `<line>` are used. For the values and labels, `<text>` are used. For the bars, `<rect>` shape is used. The position of most of the shapes is determined by JS file. JS file is bonded to HTML file in the header part of the HTML directly. Yet the bindings to the HTML

objects are done after the HTML is loaded. This is ensured by the Event Listener which is *"DOMContentLoaded"*.