Problem Set 1

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**Question1**

1. Guideline: total score: 10

* 6-12 word descriptive title is left-justified in upper left corner: 2
* Subtitle and/or annotations provide additional information: 2
* Text size is hierarchical and readable: 1 *(light font hard to read, not hierarchical)*
* Text is horizontal: 2
* Data are labeled directly: 1 *(can access the data by clicking)*
* Labels are used sparingly: 2

2. Arrangement: total score: 8

* Proportions are accurate: 2
* Data are intentionally ordered: 0 *(not intentionally ordered or colorcoded)*
* Axis intervals are equidistant: 2
* Graph is two-dimensional: 2
* Display is free from decoration: 2

3. Color: total score: 2

* Color scheme is intentional: 0
* Color is used to highlight key patterns: 0
* Color is legible when printed in black and white: 0
* Color is legible for people with colorblindness: 0
* Text sufficiently contrasts background: 2

4. Lines: total score: 6

* Gridlines, if present, are muted: 0
* Graph does not have border line: 2
* Axes do not have unnecessary tick marks or axis lines: 2
* Graph has one horizontal and one vertical axis: 2

5. Overall: total score: 8

* Graph highlights significant finding or conclusion: 2
* The type of graph is appropriate for data: 2
* Graph has appropriate level of precision: 2
* Individual chart elements work together to reinforce the overarching takeaway message: 2

Conclusion:

* Figure 10 is overall an effective visualization to illustrate the point that all industry sectors have seen sharp decrease of employment after the national emergency declared on Mar 13
* However, improvements can be made on the color selection of lines, e.g. grouped the retail subsectors in similar colors, etc.

Chart, line chart

Description automatically generated

**Question 2**







