Assignment 6

Chat 1

- Mistakes:
  - Major mistake in the chart is that of the data representation. We observe that the major slice of the chart in incomprehensible and misleading making it difficult to make out. The part with the mention of "56%" seems to occupy less portion than the other "44%" which occupies the majority of the portion.
  - It fails to provide important metadata, which can be important in the context of a survey, for instance, "How many people were surveyed", "What was the demographic", "Did people understand the context" etc.
- Suggestions
  - We can consider switching to bar graph to make the comparison more comprehensible and also look towards provide the important meta data to the visualization alongside it or somewhere below it, to make it more complete.

Chart 2

Month	Total Hours Overtime
January	24
February	12
March	36
April	72
May	76
June	48
July	72
August	48
September	76
October	88
November	76
December	48

- Suggestions
  - The plot is not intuitive at all making it very hard to comprehend on the first glance, best improvement could be to switch to bar plot, as it'll capture the data in a much more ideal manner.

Chart 3

- Mistakes
    - The bar doesn't start with "0", instead it starts with "80,000" which makes the intuitiveness of extrapolation much difficult, which can turn out to be misleading to the audience.
    - The dimensions for x-axis and y-axis can be changed, as currently the dimensions do not serve any intellectual purpose. Instead, changing them to reflect the textual labels on the x-axis and raw numerical figures on the y-axis can improve the readability of the chart.
- Suggestions
    - Switching to box plot would be a huge improvement as the details such as "25% more", "25% less", is captured in a much better way by a box plot.

Chart 4

- Mistakes
    - The donut chart has too many slices and portions, which makes the visual appeal much harder to read and understand.
    - There's in no indicator for the value on the chart, such as percent or even raw value. It's a bad choice to contain and communicate this amount of data.
- Suggestions
    - Switching to a simple line chart can improve the visualization to a great degree.

Chart 5

- Reason the chart-5 is not a Pareto graph.
    - There's no comprehensible sort order for the sectors individually.
    - Line plot seems like a really bad choice as it can't capture the true nature of the graph.
- Suggestions
    - An interesting change would be to split the graphs into two separate graphs.
        - We can use pie chart to represent the data for AC household Ownership.
        - We can use the lollipop chart to represent the data for "Person cooling degree days"