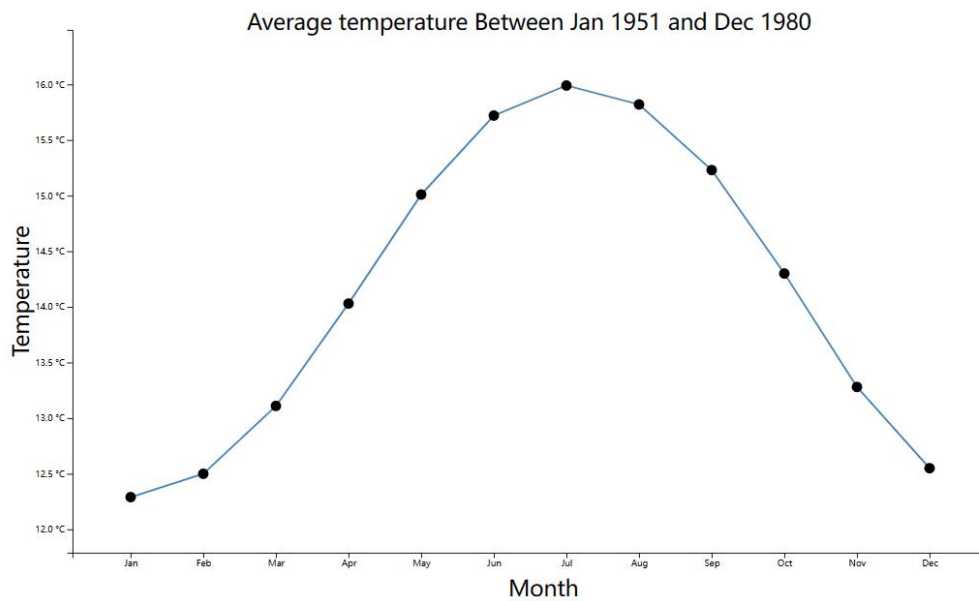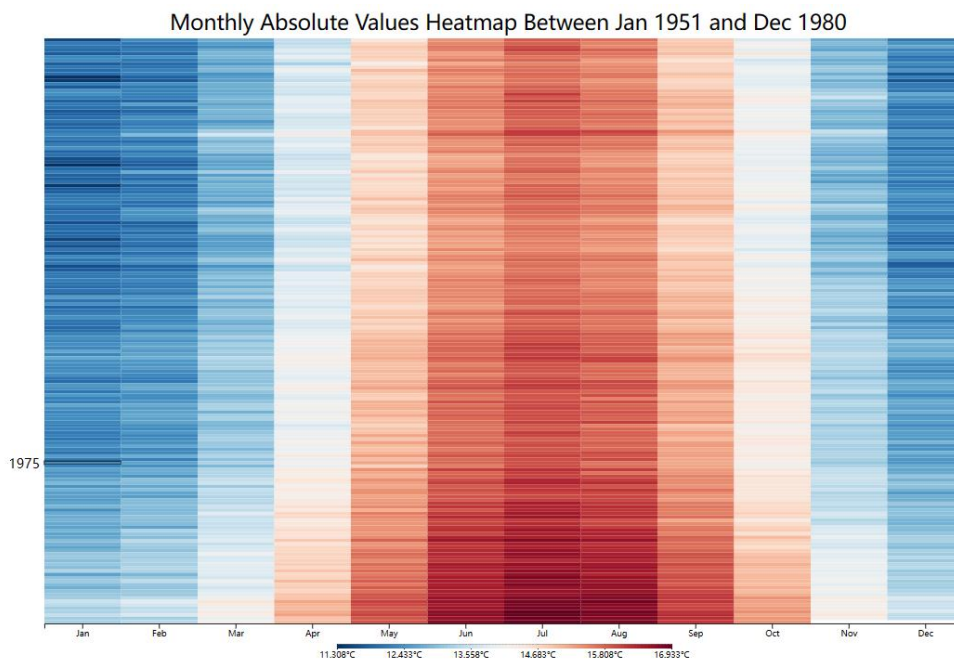1. Task 1

For task 1, I draw a line chart by using the average monthly temperature data, and not only I draw a line which reflects the temperature changes between different months on the svg, but also I draw 12 corresponding data points on it so that we can have a clearer visualized result. Also, we change the ylimit so that it can present the line chart perfectly.

2. Task 2

For Task 2, we first need to process the data to get the corrected exact temperature for each month in order to plot a heatmap. For the heatmap, we can use a large number of rectangles to achieve this and beautify the representation of it with our color projection of the maximum and minimum values of the exact temperature. In addition, we have added a legend below it with the corresponding temperature-color relationship to increase the understanding of the heatmap. What is more, we apply a detector on each rectangle and every time when the mouse moves over the corresponding box, the corresponding year will appear at the left side.