The main theme of the diploma thesis is description of multiple comparison methods, which are used to compare pairs of means or medians.

At the beggining we define multiple testing and describe methods that control the probability of first type error at level α. The Šidák method and the prerequisites required for its use are described in detail. The work also includes a brief description of analysis of variance and an overview of several methods of multiple comparison. Additionally, the method of multiple comparison with control, its modifications and practical implementation is presented.