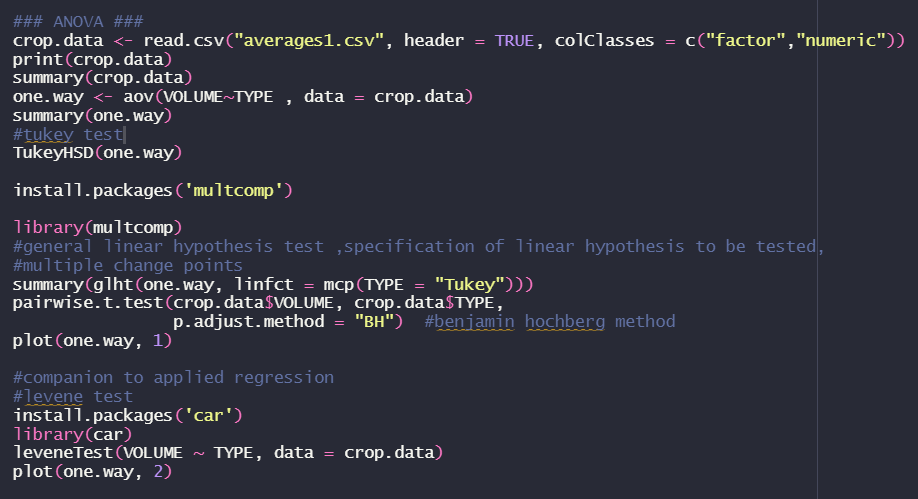
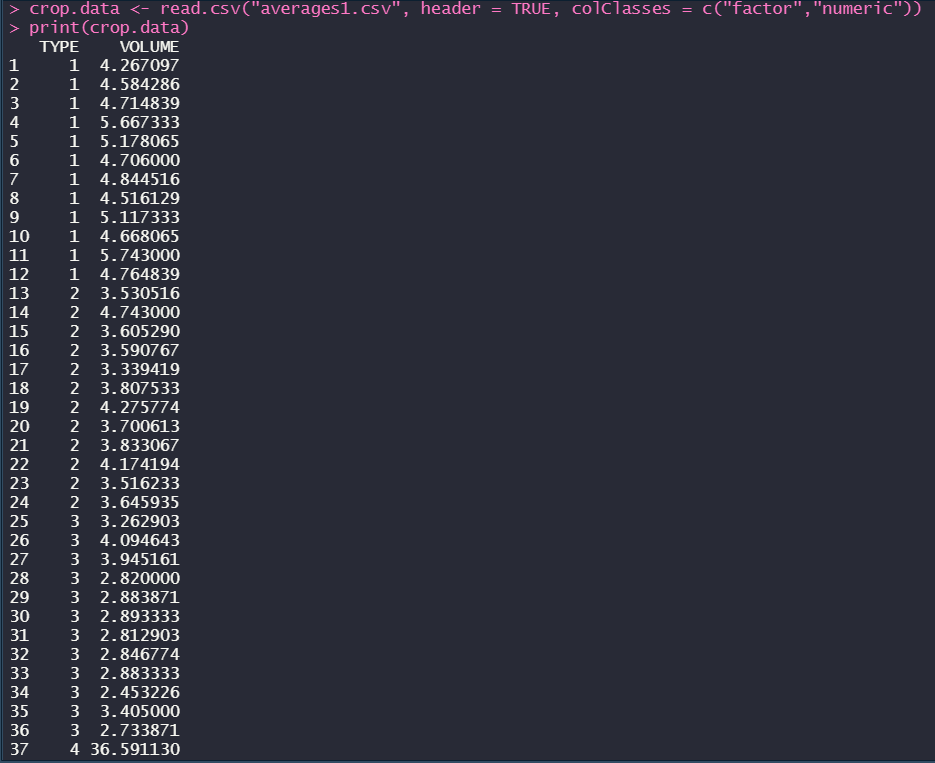
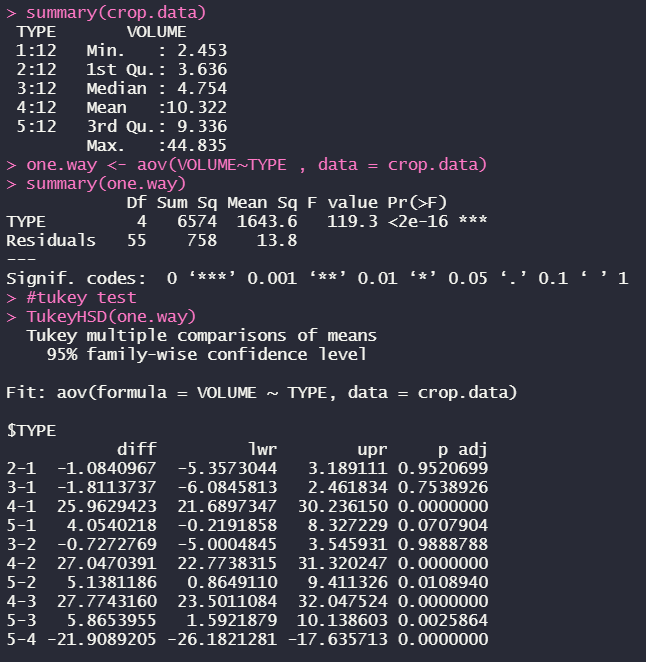
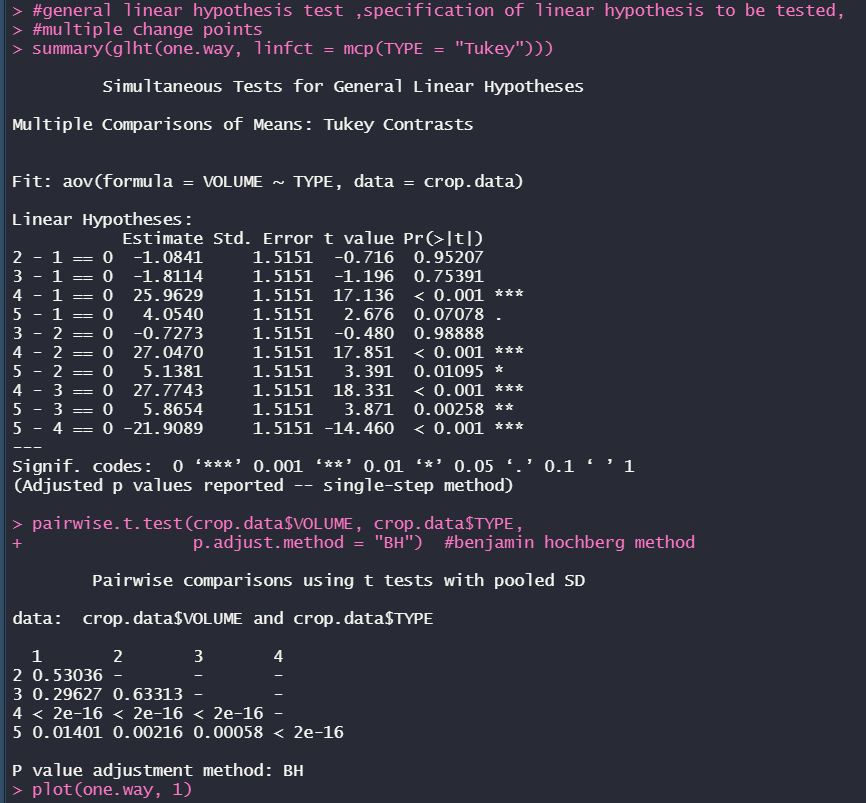
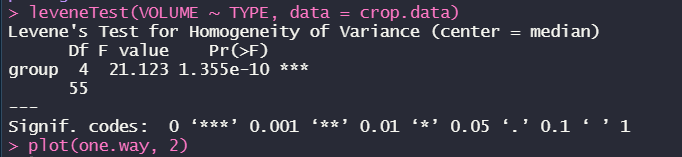
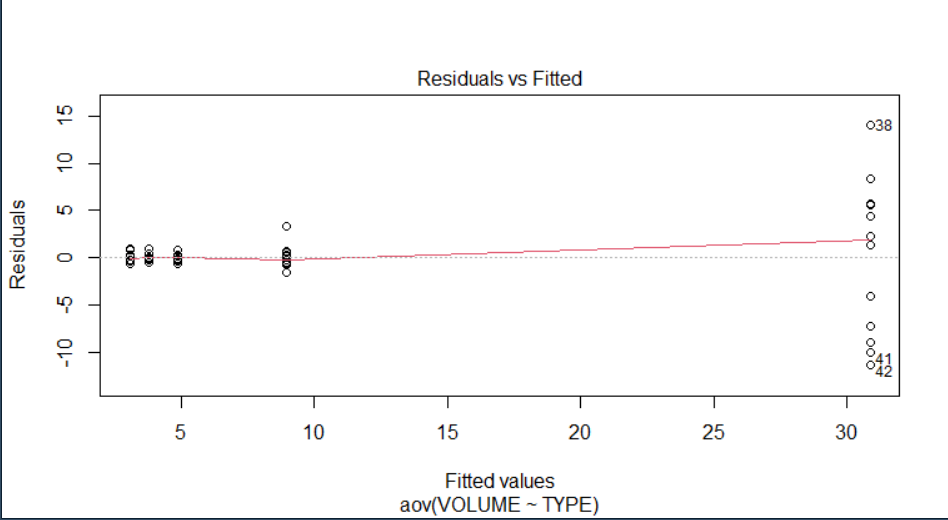
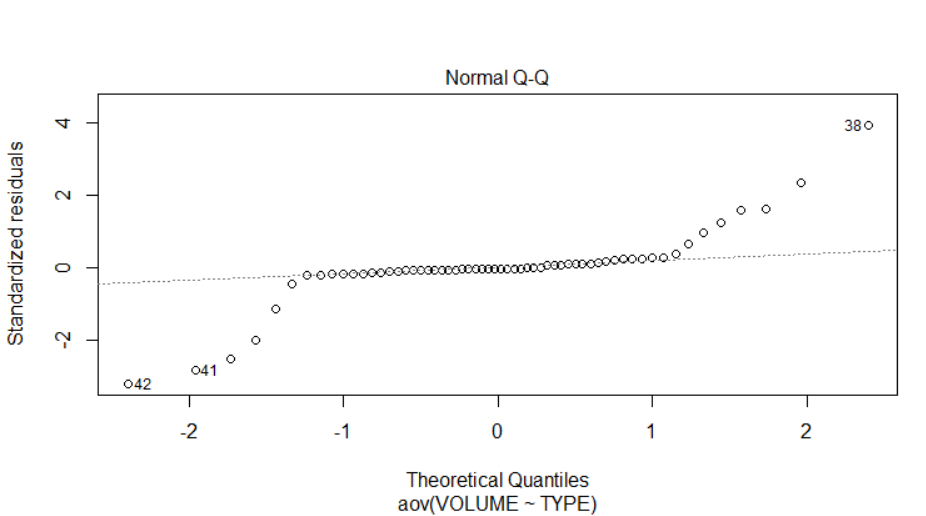
**CODE IMPLEMENTATION IN R SCRIPT:**

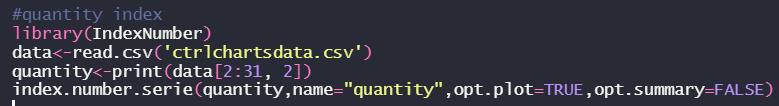
1. **ONE-WAY ANOVA-CODE:**



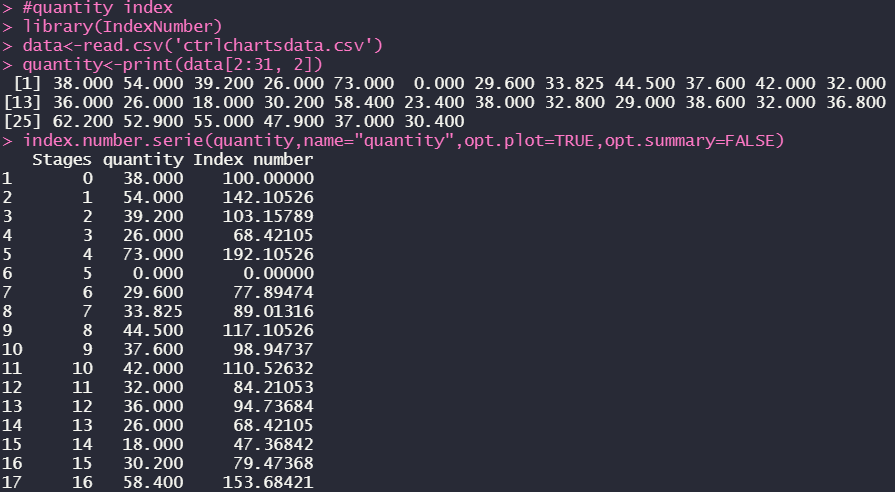
OUTPUT:

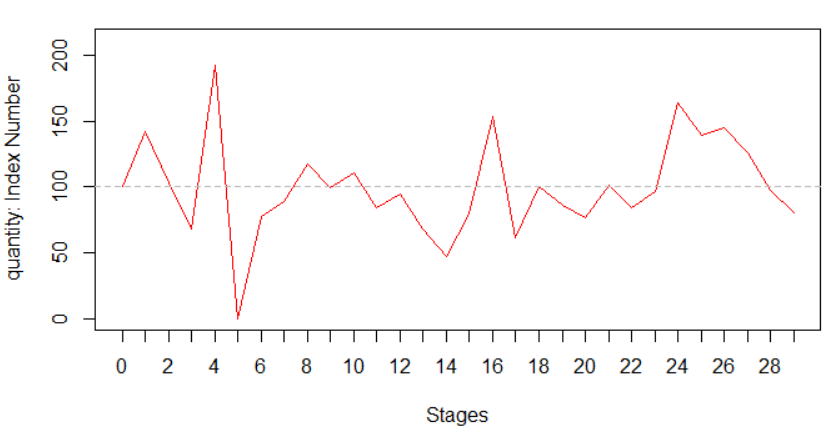
    

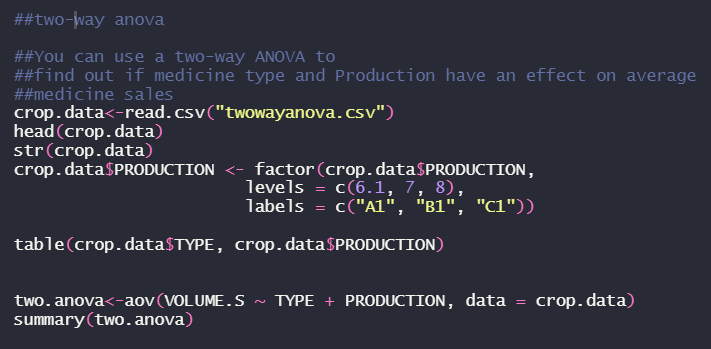
1. **INDEX NUMBERS CODE:**



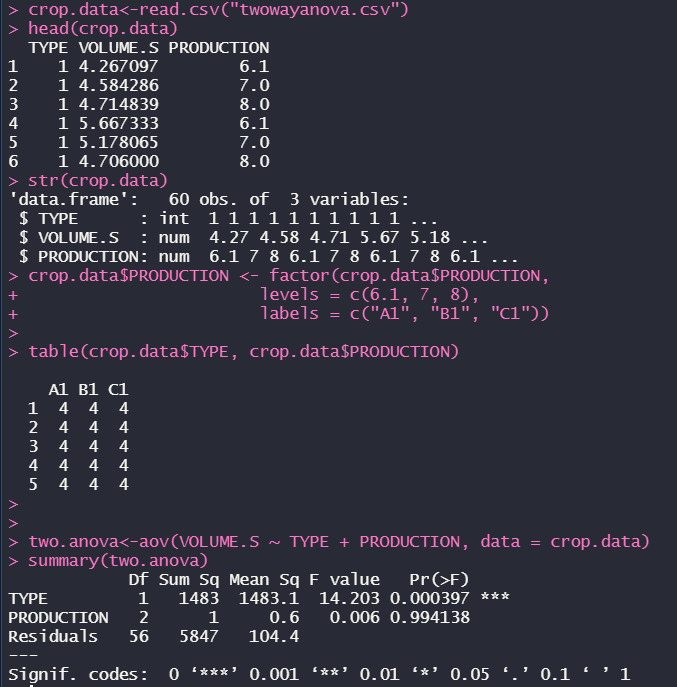
**OUTPUT:**



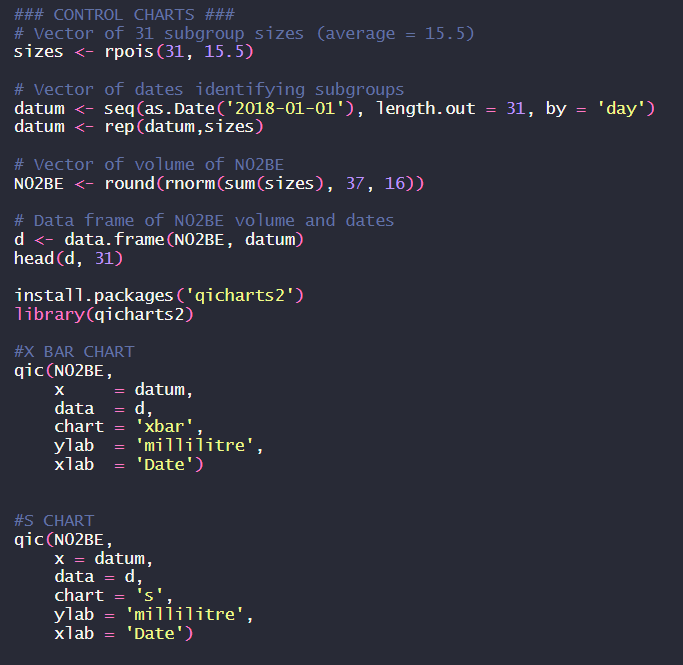


1. **TWO – WAY ANOVA CODE**:

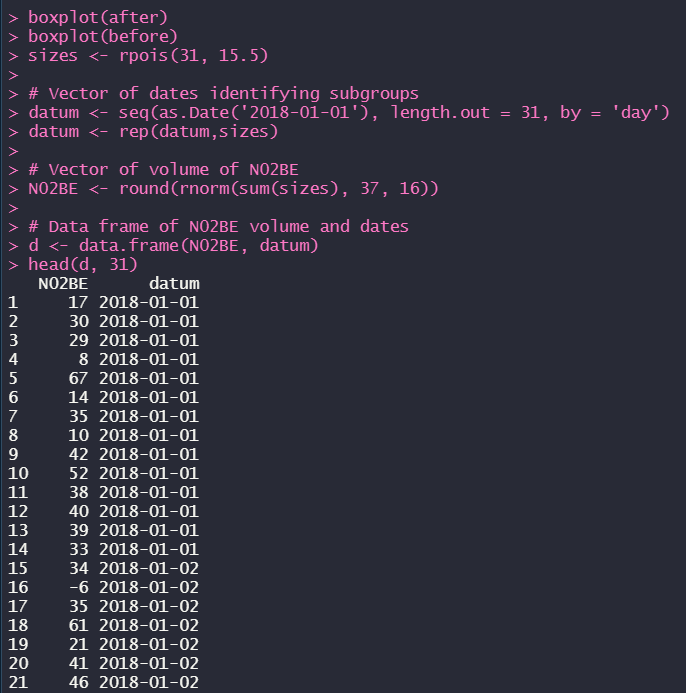
**OUTPUT:**

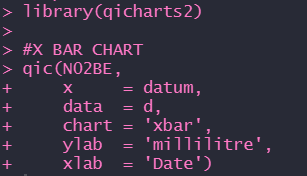


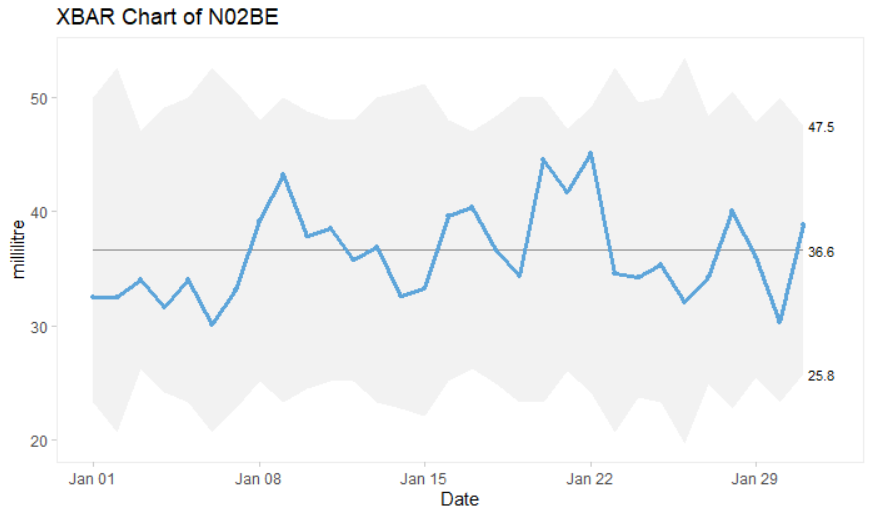
**4. CONTROL CHARTS-CODE:**

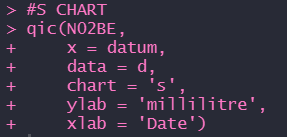


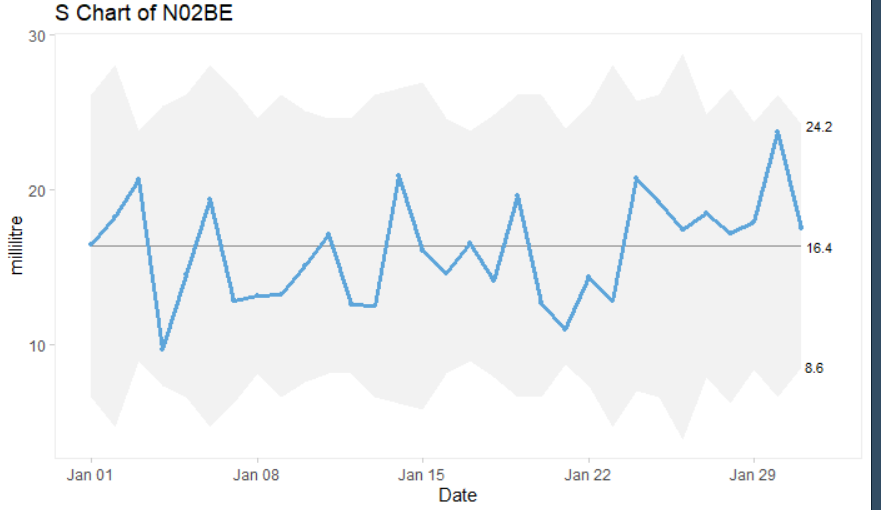
**OUTPUT:**

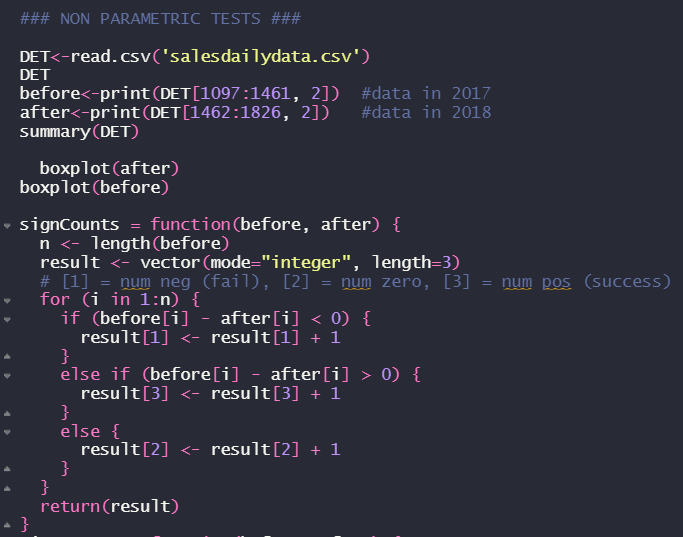
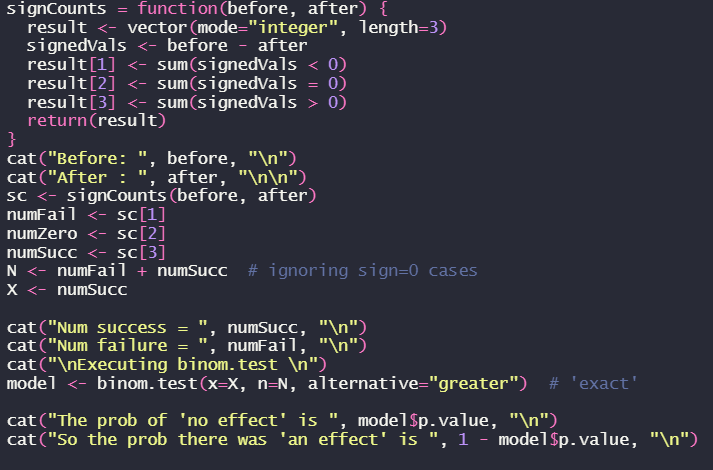




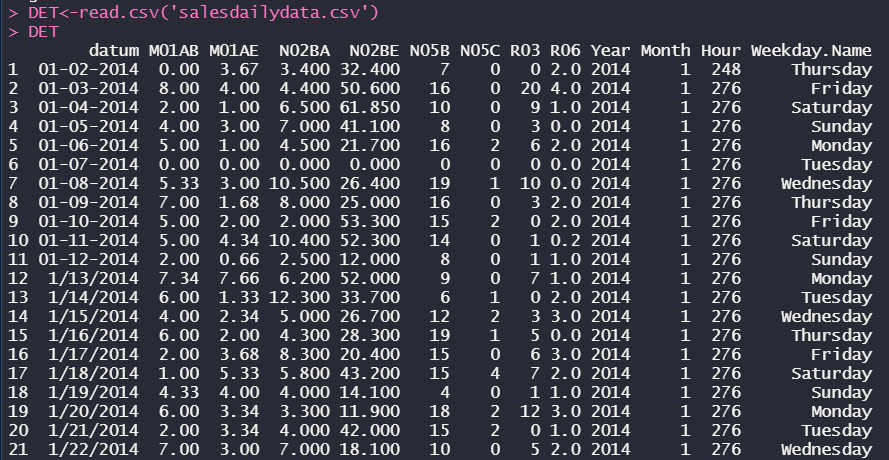


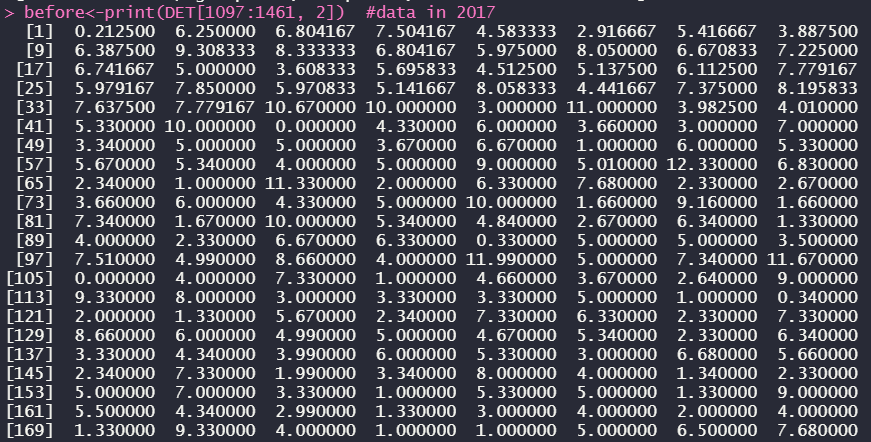


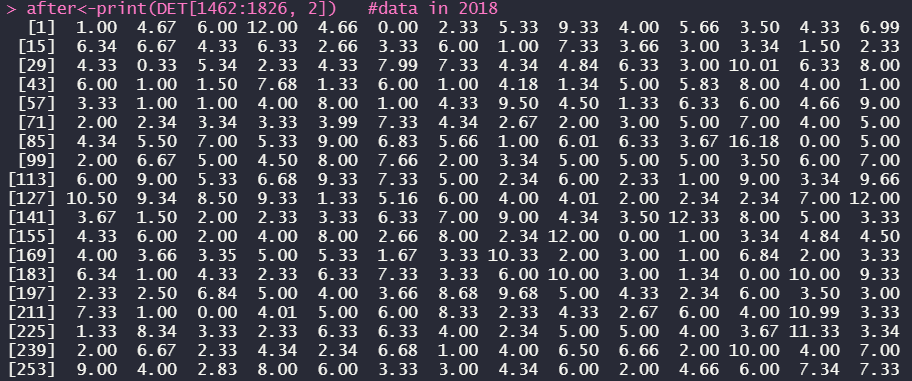


**5.NON-PARAMETRIC TESTS CODE**: 

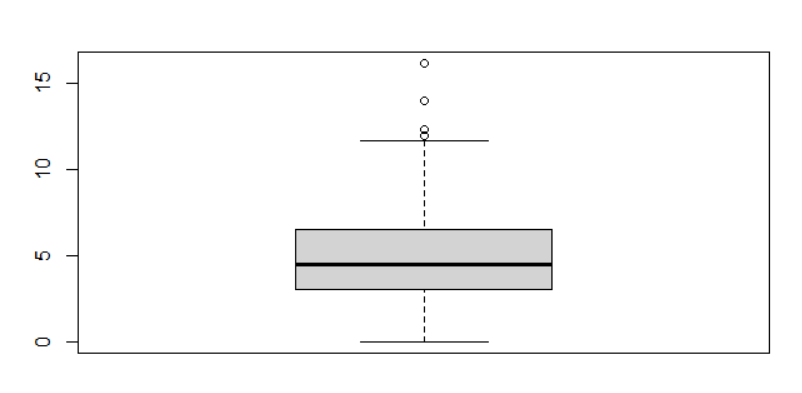
**OUTPUT:**



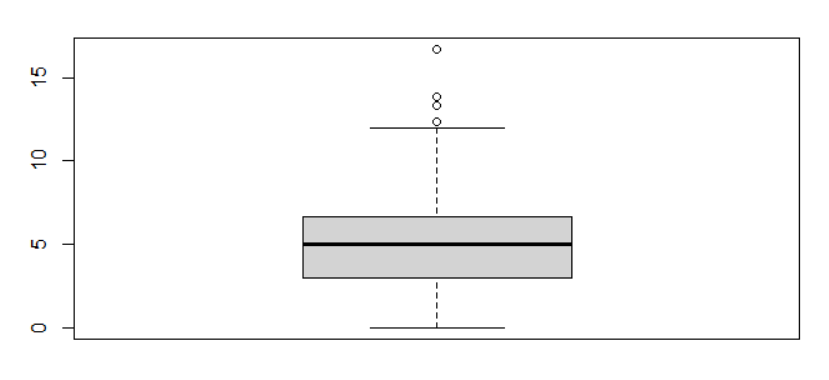


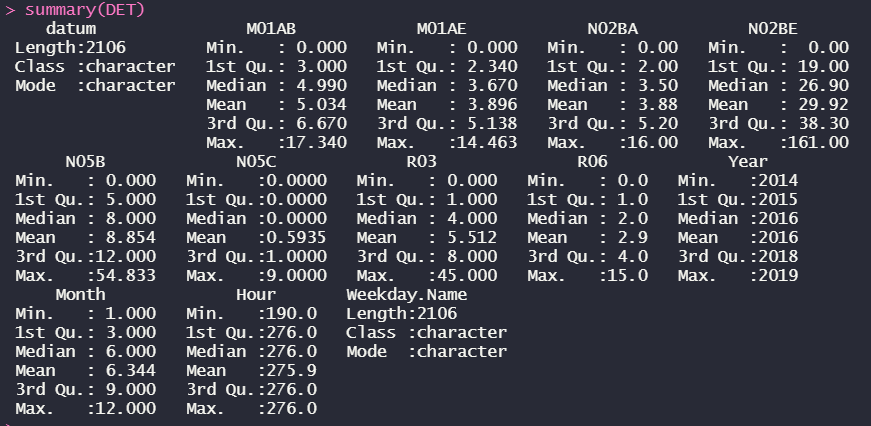


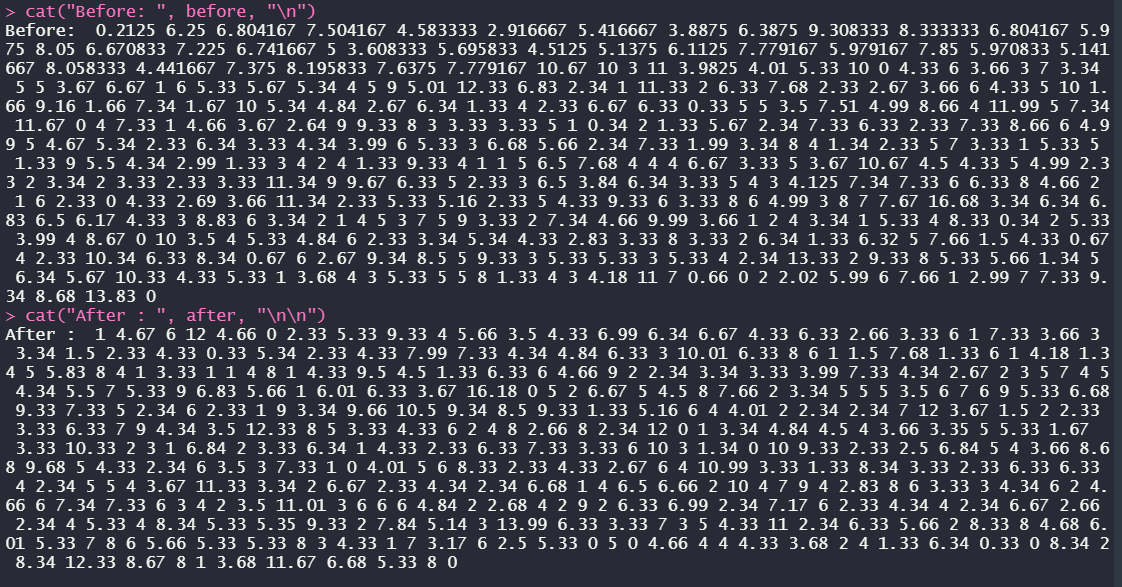
BOX-PLOT FOR BEFORE DATA:

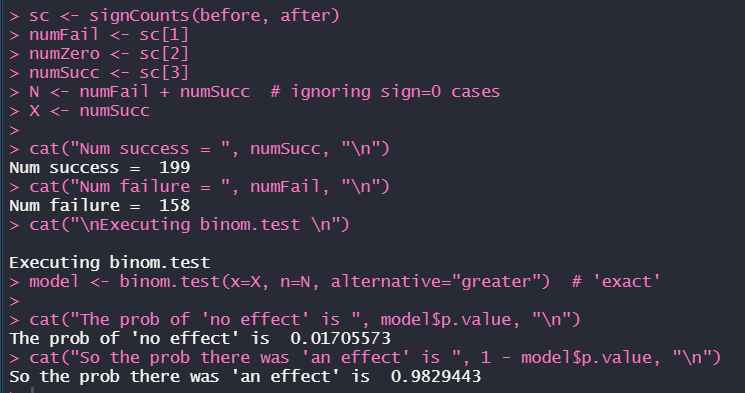


BOX-PLOT FOR AFTER DATA:

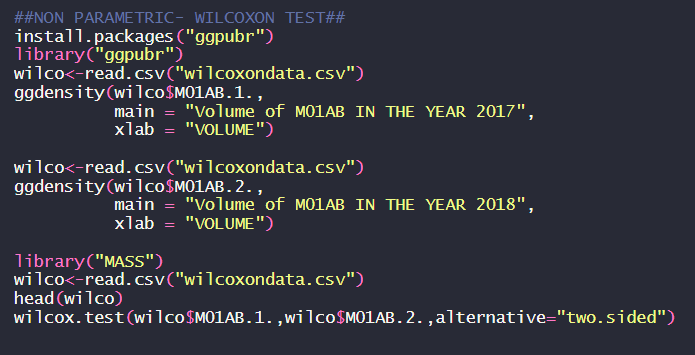




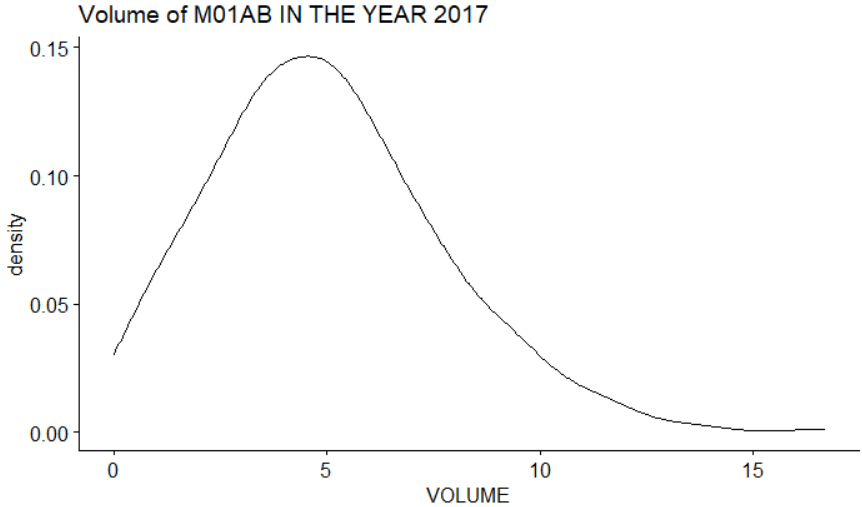


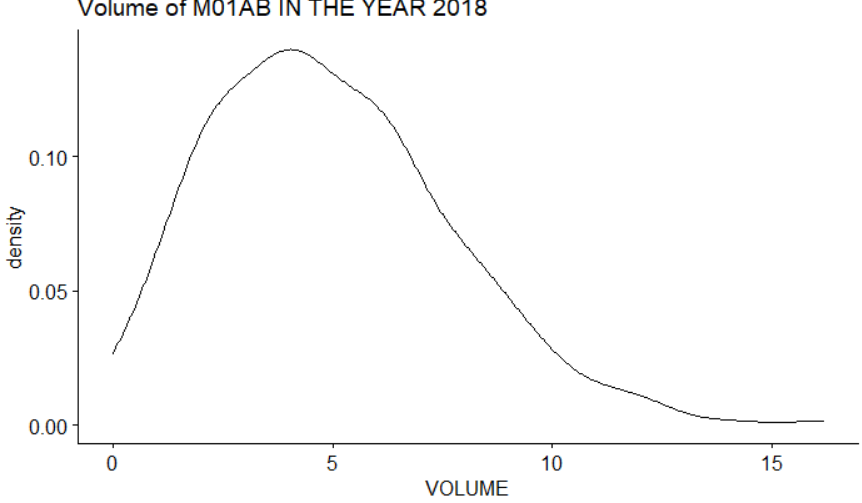


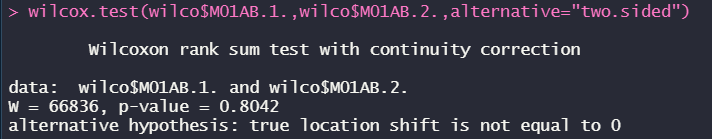
**6.WILCOXON RANK SUM TEST-CODE:**



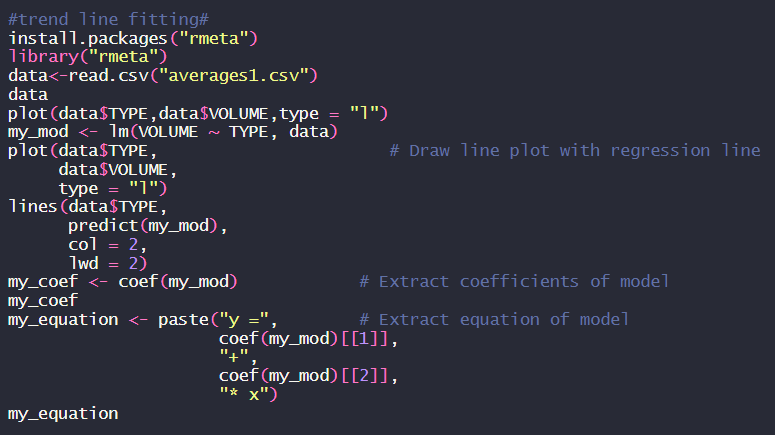
**OUTPUT:**







**7.TREND LINE FITTING-CODE:**



**OUTPUT:**

