Business Objective

To determine whether there is any difference in the average Turn Around Time (TAT) of reports of the laboratories on their preferred list.

Ho: No difference in TAT in 4 labs.

Ha: Difference in TAT in 4 labs.

Step 1 Normality Test

Ho: Data are normal.

Ha: Data are not normal.

shapiro.test(LabTAT$Laboratory.1)##P 0.5508>0.05 data normal

shapiro.test(LabTAT$Laboratory.2)##P 0.08637>0.05 data normal

shapiro.test(LabTAT$Laboratory.3)##P 0.4205>0.05 data normal

shapiro.test(LabTAT$Laboratory.4)##P 0.6619>0.05 data normal

NOTE: No external conditions

Step 2 2 ANOVA test

p-value = 2e-16 <0.05 accept alternate Hypothesis

So, there is a difference in the average Turn Around Time (TAT) of reports of the laboratories on their preferred list.