A hospital wants to determine whether there is any difference in the average Turn Around Time (TAT) of reports of the laboratories on their preferred list. They collected a random sample and recorded TAT for reports of 4 laboratories. TAT is defined as sample collected to report dispatch.

Analyze the data and determine whether there is any difference in average TAT among the different laboratories at 5% significance level.

Minitab File: **LabTAT.mtw**

**Ans**: So we are going to use Anova Ftest statistic here, as we have to analysis between more than 2 samples.

So, H0= all samples TAT population means are same

H1 = atleast 1 sample TAT population is different

After using Anova Ftest we get the P value as 2.1156708949992414e-57

So Now comparing with , we got that p value is gretter than 0.05, so H0 accepted.