Business Objective:

If there is difference between diameter of cutlets between two units.

Ho: Diameter is same.

Ha: Diameter is different.

Data:

Continuous, 2 population with mean and standard deviation unknown.

Step 1: Normality

Ho: Data is normally distributed.

Ha: Data is not normally distributed.

P value > 0.05 -> P high Ho fly -> fail to reject Ho -> Data is normally distributed.

P value > 0.05 -> P high Ho fly -> fail to reject Ho -> Data is normally distributed.

Step 2: Choose the test (External Conditions same) ->Paired T Test.

Ho: Sample mean of unit1 is equal to sample mean of unit2

Ha: Sample mean of unit1 is not equal to sample mean of unit2

P value = 0.05 -> high Ho fly -> fail to reject Ho -> Sample mean of unit1 is equal to sample mean of unit2.

Conclusion :

Diameter of both units of cutlets are same.