Practical 11

Exercises on Confidence interval

**Pre-Lab**

## Define Confidence Interval?

## 2. Why Confidence Interval Is Important?

## 3. What is Standard Error

**In Lab**

**Download Heart.csv.**

Perform the following: -

(i)Calculate the standard error.

(ii)Calculate the male population proportion with heart disease and standard error

**(iii)Calculate a confidence interval of the difference in the population proportion of females and males with heart disease.**

**(iv) confidence interval of the mean cholesterol level of the female population**

**(V)** **Calculate the standard error using the formula for the standard error of the mean**

***(vi) Construct the CI***

**Post Lab**

## In a sample of 659 parents with toddlers, about 85%, stated they use a car seat for all travel with their toddler. From these results, a 95% confidence interval was provided, going from about 82.3% up to 87.7%. Calculate Confidence Interval