Lab Exercises

1. a) Create a function named ***FahToCel*** which accepts a number as temperature in degrees Fahrenheit and returns the temperature in Celsius

$$C = (F - 32) * \frac{5}{9}$$

   b) Create a **lambda** function for the above formula

2. Create a function named ***climits*** which accepts a numeric variable (input) and outputs a data frame containing two calculated values namely, mean(input) – 2*SD(input) and mean(input) +2*SD(input).

3. Create a function named ***CV***, which accepts a numeric variable(input)and outputs its coefficient of variation with formula: (SD / mean) *100

4. There is a transformation function: $\frac{X-\min(X)}{\max(X)-\min(X)}$; X being a numeric variable/column. This function scales every value in the variable X to values between 0 to 1. Create a function named ***Scale_0_to_1*** which accepts the numeric variable and returns the numeric variable scaled with the above mentioned function