

## Assignment 02

### Question 01

The linear search compares each element of an 1 Dimensional array with a search key. Write a function called `linearSearch()` to return the location of the array (index) if the search key is found. Create an array in your main program and store values from the keyboard using another function called `getValues()`. Assume an array size as you desired.

### Question 02

Write a C++ program to create a 2D array of size 3 x 4 and store values from the keyboard. Implement the `PrintTot()` function which takes the array as the parameter and total up each row in the 2D array and print the total as shown below.

Sample output:

Row 0 Total is = ...

Row 1 Total is = ...

Row 2 Total is = ...

### Question 03

Write a program to input a series of heights of sportsman. The program should calculate the average height, the minimum and maximum heights at the end of the value entry. Assume that the program will stop when the value -99 is entered for the height. If any other negative number is used you should display an error message and prompt the user to input the next value.

### Question 04

Write a program which inputs a temperature reading expressed in Fahrenheit and returns its equivalent in Celsius, using the formula: (Use a Function called `FahrenheitToCelsius()`)

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

Test your code for some sample values.

### Question 05

Write a Function called `lbToKg ( )` which take a weight in pounds and converts it to Kilogram and return the weight in Kg. You may consider that one **pound** is equal to **456 g** or **0.456 kg**. Test your code for some sample values.