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## ELP-319 : Lab Report

### Experiment - 1

(Familiarization with Code Composer Studio (CCS))

Submitted by: Monday Sub-Group - 3 :- Yash Garg – 2015EE10691  
Performed on - 30/7/18 Narayani Bhatia – 2015EE10045

**Objective :-** To get comfortable with the Code Composer Studio, learn to run and verify the given code, and understand about the architecture of the processor by :

- 1) Implementing program to find sum of numbers in an array, in assembly language
- 2) Implementing C code for same task and comparing the clock cycles required

#### Theory :-

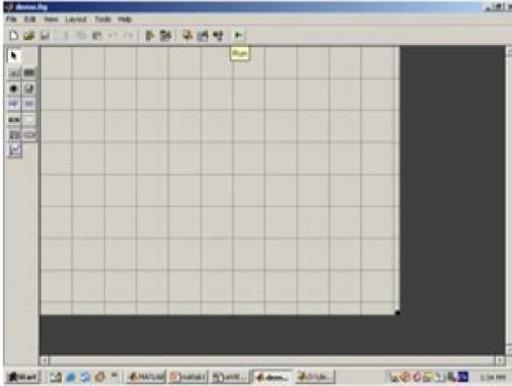
**Code Composer Studio** is an integrated development environment (IDE) that supports the TI microcontroller and embedded processors portfolio. Code Composer Studio comprises a suite of tools used to develop and debug embedded applications. It includes an optimizing C/C++ compiler, source code editor, project build environment, debugger, profiler, and many other features.

**Assembly language** is a low-level programming language for microprocessors and other programmable devices. With assembly language, a programmer works only with operations that are implemented directly on the physical CPU.

Assembly languages generally lack high-level conveniences such as functions and structs, and they are not portable between various families of processors. They have the same structures and set of commands as machine language, but allow a programmer to use names instead of numbers. This language is still useful for programmers when speed is necessary or when they need to carry out an operation that is not possible in high-level languages (like C/C++, Java).

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## Matlab Basics

Christian Roessler  
U Melbourne  
June 2004

### 1 Elementary Syntax and Predefined Tasks

#### 1.1 Declaring Variables, Vectors, and Matrices

A constant, vector, or matrix is declared using the syntax 'name = value' - for example,

```
>> a=3;  
>> some_number=0;
```

creates two constants 'a' and 'some\_number' with assigned values 3 and 0. If the value is a string, it is placed in single quotation marks:  
>> outcome='Hypothesis rejected.';

If the value is a vector or matrix, it is placed in square brackets, and the entries are spaced by blanks (or commas):

```
>> some_vector=[0 1 2 3];
```

creates a row vector with four elements. To divide into columns, enter the rows separated by semicolons:

```
>> column_vector=[0,1,2,3];
```

creates a column vector with four elements, and

```
>> some_matrix=[0 1,2 3];
```

creates a square matrix with the same elements. It is possible to create a matrix from existing matrices and vectors. For example,





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