Computer Applications in Control
Homework 2
Due Date: 96.12.2 - 23:00

Shiraz University

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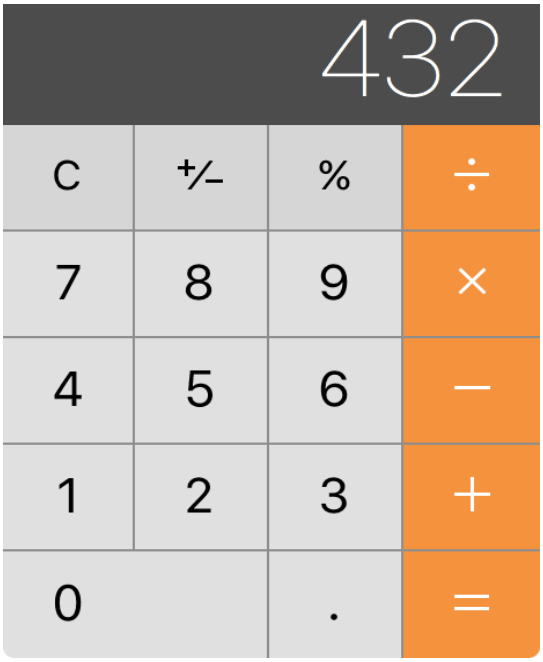
1. Write a program that gets two numerical inputs and computes an array with Fibonacci sequence.
   a) First input: number of sentences.
   b) Second input: Maximum sum of sentences or limit sum of sentences.

2. Write a program that gets scores of a student and computes the average of student's score.
   a) Your program must have command key. (for computing the average)
   b) Use a button to clear input without stopping the program.

   * You can use array or other input to get score.

3. Develop above program in a new vi for at least 10 students.
   a) Use proper input for students' names. After computing the averages, your program must give the name of 3 students with high score and 3 students with low score.
   b) Use one LED for each student and if his/her average is greater than 17, the LED must be green, if 12<average<17, then the LED must be yellow, if average<12, then the LED must be red.

4. Write the program of a calculator with 4 main operations (* ,/ ,+ ,-) similar to the following figure.
   a) Use different buttons to enter numbers and operations.



- There are many ways to write those programs. So your result and program performance is important.
- At the end you must send 4 .vi files.