# LabManual 04

**Instructions:**

This is an individual Lab. You are NOT allowed to work/submit in form of group. Absolutely NO collaboration is allowed. Any traces of cheating would result in an “F” grade in this Lab.’

Keep the following good programming practices in mind when writing your code:

• Comment your code intelligently.

• Indent your code properly.

• Use meaningful variable names.

• Use meaningful prompt lines/labels for input/output.

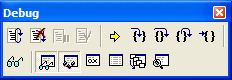
**Note:**

* Implement all problems with Debugging
* Take Screen Shots of all local variable values inside a function in “local variables section” and “watch window”
* Use Pointer offset method to access array elements E.g. \*(ptr+1)

**Problem 1:**

**(No need for Evaluation of Q.1, It’s Just for Practice)**

Open a new project in visual studio and type a simple program to find the **maximum element**in an array using a **Function**and compile it. Practice with the following debugging commands:

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| --- | --- | --- | --- |
| Short cut key | Icon | Menu | Explanation |
| F-9 |  |  | Insert/Remove breakpoint |
| F-5 |  | Debug-Go | Execute a program until the next breakpoint |
| Shift F-5 |  | Debug-Stop debugging | To stop debugging a program. It will stop executing the program |
| F-10 |  | Debug-StepOver | Go to the next statement |
| F-11 |  | Debug-Step Into | Go inside a function |
| Shift F-11 |  | Debug – Step Out | Come out of the function |
|  |  | Debug - Run to cursor | Execute all statements till the statement on which the cursor is placed or until the next breakpoint |
| Alt -3 |  | Debug-Windows-Watch | Show the window where only the variables in scope are shown |