**Computer Programming**

**Experiment 3: Functions (Chapter 5)**

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| **Class:** |  |
| **ID:** |  |
| **Name:** |  |

1. **Goal**

* Understand functions of a C program
* Grasp the definition, call, and prototype of a function
* Understand the scope of local variables and global variables
* Understand the use of pointers and variable addresses

1. **Requirements**

Please finish your experiment independently. You could use Integrated Development Evironments (IDE), such as CodeBlocks, Microsoft Visual C++, gcc, and Apple XCode. Write out a full program, fix any bugs, and make sure your code is runnable.

1. **Contents**
2. Page 244, Application Program 5.1: Using Functions with Complex Loops and Working with Grids (A Logic Example).
3. Page 252, Application Program 5.2: Modular Program Design – Area of Parallelogram, Volume of Parallelepiped (Numerical Method Example).
4. Page 258-5.1
5. Page 259-5.3
6. **Results & Analysis**

Please describe the IDE you used, list the source code of your program, present your input and output, and analyze your results and the issues you encounter.

(Do not change the above contents. Please provide your answers below.)