**Computer Programming**

**Experiment 1: C Basics (Chapter 1~3)**

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

1. **Goal**

* Understand, code, and debug a full C program
* Grasp the formatted screen/file input/output
* Understand variable naming, declaration, and assignment in terms of different data types
* Grasp math library functions, arithmetic operators and expressions

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 115, Application Program 3.1: Area Calculation.
3. Random number generation: First, generate 10 Random integer numbers from 10 to 20 to a file. Then read these numbers from the file and print them out.
4. **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.)