Objectives: After completing this program you will be able to do the following:

- 1. Write a program header correctly using the style and format used in this class;
- 2. Write function headers correctly using the style and format used in this class:
- 3. Write preconditions and postconditions correctly in function headers;
- 4. Use the #include statement to add the iostream, string, fstream and iomanip libraries to a program;
- 5. Use the "using" clause in the statement "using namespace std; ".
- 6. Define and use function prototypes in a program;
- 7. Declare and use an ifstream object to read data from a file;
- 8. Pass parameters by value;
- 9. Pass parameters by reference
- 10.Declare and use a string object;
- 11.Use if and if/else statements to implement critical conditional statements in functions;
- 12.Implement mathematical statements in C++;
- 13.Use the magic formula to format output;
- 14. Use the manipulators setw, right, and left to format output;
- 15.Implement a main function;
- 16.Use the fail() stream function to determine if a file was opened correctly;
- 17.Use cout to print data to the screen;
- 18.Use the eof() stream function to determine when the end of file has been reached;
- 19.Use a while statement;
- 20.Call/invoke functions;