**Programming Exercises in C++ (CSC212)**

1. Code to capture integer data into a matrix, mybox, specified as 4 by 6. Further your codes to compute the row multiplication and column division of the matrix elements. Note that the row multiplication is achieved by multiplying the row elements with the row index, ditto the column division.

2. Fibonacci is a number series that has two values as initials, e.g. 0 and 1. The next digit/number in the series is calculated by summing up the previous two digits/numbers, e.g. 0,1,1,2,3,5,8,13.. Write a C++ program that computes the 100th series asides the initials.

3. The period of recession was heralded by high and increasing exchange rate. Due to the instability in the rate, many visit banks/sites on daily basis to ascertain the current rate. To avoid frequently patronizing banks/sites, develop a user-friendly C++-based Currency Exchange App for use.

4. Given the matrix and using array initialization method:

2 1 4

Cell = 9 8 6

0 3 1

6 4 3

1. code to produce the row sum and average
2. code to produce the column sum and average
3. code to produce the inverse of the matrix
4. code to produce the transpose of the matrix

5. In a typical Nigerian University, the common grading system is as given below:

Score Range Grade

<40 F

40-44 E

45-49 D

50-59 C

60-69 B

70-100 A

1. Assume your class size (125), code in C++ to accept scores in csc212 for students in the class, outputting the grade class of each based on the score inputted.
2. Assuming students with serial nos: 45, 76, 98, 104 and 116 on the list of 125 did not partake in the assessment and exam of csc212, re-code your program in (i) above such that the application omits them in the output.