**CECS 503**

**Fall 2015**

**Assignment 4 for Unit 5**

**Due Date:**

**Please do the following problems**:

1. Write a hash.cpp that does the following:
   1. Write your own main and insert function to insert the sequence of integers { 121, 81, 16, 100, 25, 0, 1, 9, 4, 36, 64, 49,) using a table of size 17.
   2. Implement rehashing and run the same sequence of input using a table of size 7. You can choose any rehashing function for this part.

**Turnins:**

All source code zipped

**Please remember:**

All assignments and tests must be submitted on Blackboard.

All computer assignments and projects need to be written in C++ and will be submitted as follows:

1. **Visual Studio is not allowed *(IMPORTANT).***  You must use and IDE that allows you to compile and run individual C++ files. You may use Bloodshed Compiler from the link:

<http://www.bloodshed.net/dev/devcpp.html>

or any other similar environment. For linux/unix/mac users, you may use any text editor of your choice and the c/c++ compiler that comes with your system such as gcc.

1. All reports have to be submitted as a PDF report that contains:
   1. Title page with your name, assignment number and the day you are actually submitting this report (Not the assignment due date)
   2. A brief description of the assignment.
   3. A brief description of the logic employed and the needed input and expected output.
   4. A comprehensive set of snapshots showing the inputs submitted, outputs obtained in the case of a successful output or a failure.
   5. Any conclusions, analysis, or answers to any questions I as you as part of the assignment.
   6. A text file that contains all source code.
   7. Please zip both the PDF document with the source code and submit one zip file.