## Assignment 9 01/19/2017

1. Problem 10.11 (Polynomial Class)
2. Beginning with the Vec class that we created in assignment #3 (you can download a solution here: Vec.h Vec.cpp ), add support for the following operators:
    - operator+ – for two Vec objects v and w, the result of v + w should be a Vec object that contains the component-wise sum of the two objects. (The x component is the sum of the two x components, etc.)
    - operator+= – v += w should change v to contain the component-wise sum.
    - operator- – similar to operator+
    - operator-= – similar to operator+=
    - operator* – v * w should produce the component-wise product.
    - operator*= – v *= w should change v to be the component-wise product.
    - operator* – v * x (where x is a double and v is a Vec) should produce a Vec that has each component of v mutliplied by x.
    - operator*= – v *= x changes v such that each component is multiplied by x
    - operator== – v == w produces a value of true if all three components are exactly equal.
    - operator<< – cout << v should send to the standard out a cleanly formatted version of the Vec object similar to the following (1.2340, 0.9561, 3.0000) (each component should be expressed with 4 decimal places.
    - operator[] – such that v[0] produces the x component, v[1] produces the y and v[2] produces the z component.
3. Beginning with the SingleLinkedListOfString class (solution is available here: SingleLinkedListOfString.cpp SingleLinkedListOfString.h). Add and test a copy constructor and an overloaded assignment operator. These must have semantics that make completely independent (deep) copies.

Submit your program and via Sakai submission system and turn in a printed copy of your code.