

This will be a multi-part assignment. Later homework will expand upon what is developed in this assignment.

1. Create a class called **MyComplex** to represent complex numbers. Each part (Real and Imaginary parts) should be stored as a **double**. Data members should be private and you need to supply appropriate accessor and mutator methods.
2. Supply a default constructor (both parts zero), a constructor that allows the real part to be set and a third constructor that allows both parts to be set.
3. Supply an insertion operator that will allow the value of a complex number to be printed. The output should look like:  $2+3i$ ,  $1-4i$ ,  $-2+0i$ ,  $0+5i$  for example.
4. Supply a complete program that exercises your class. (be sure you also exercise the accessor and mutator functions).

You must supply a listing of your program and sample output.