**Assignment#2**

Q1. A class called **MyComplex**, which models complex numbers x+yi. It should contain:

* All constructors that creates a MyComplex instance with the given real and imaginary values.
* Methods **isReal()** and **isImaginary()** that returns true if this complex number is real or imaginary, respectively. Hint:
* A method **equals(double real, double imag)** that returns true if *this* complex number is equal to the given complex number of (real, imag).
* An overloaded **equals(MyComplex another)** that returns true if *this* complex number is equal to the given MyComplex instance .
* A method **magnitude()** that returns the magnitude of this complex number.
* A method **conjugate()**that returns a new MyComplex instance containing the complex conjugate of this instance.
* Methods **add(MyComplex)** and **subtract(MyComplex)** that adds and subtract this instance with the given MyComplex instance , and returns a new MyComplex instance containing the result.
* Methods **multiplyWith(MyComplex)** and **divideBy(MyComplex)** that multiplies and divides this instance with the given MyComplex instance.

Also Write a Testing program to check the proper functioning of the class **MyComplex.**