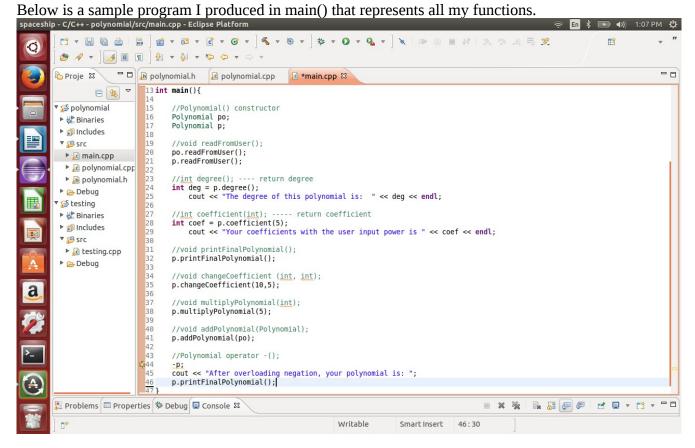
Problem: This program is to ask the user to fill out a polynomial equation and be able to do specific functions to this Polynomial.

I created an ADT that is able to hold specific functionalities. I created a constructor that creates an object with zero terms. ReadfromUser() reads and pushbacks the exponents and numbers into the object. Degree() returns the degree of the expression. (If expression is $x^3 + x^4$, the degree of the expression is the highest degree which is 4). ChangeCoefficient() takes the input power and changes the actual coefficient to what the user wants. MultiplyPolynial() multiples the polynmial by a certain integer. AddPolynomial adds two polynomials together, I overloaded the negation operator so it changes the polynomial vector into negative, and printFInalPolynomial() prints the polynomial. My ADT vector is stored like this:

[coeff][degree][coeff][degree].....

Knowing this, if I want to change the coeff, the index are even (I + I + 2 + I + 4...) If I want to alter the powers, the indexes are odds (i+1, i+3, i+5)...



Using Eclipse 3.8.1, the compilation I got for this is shown on page two . Error checking is tested for each user input.

