CS 153 Project Writeup

- 1 Programming Language Used:
 - a Python 2.7.13
- 2 Operating System Used in development:
 - a Windows 10 Home
- 3 Git Repository Link:
 - a https://github.com/YsabelDoquenia/CS153Project.git
- 4 Reflection on the Development Process
 - a Which part(s) of the project, if any, did you find easy to do? Why do you think did you find these easy to do?
 - (1) I had an easy time implementing the Addition and Subtraction part. It was very easy because all I had to do was to XOR the values with the variable x of the same degree.
 - (2) I also had an easy (and fun) time doing the extra functions such as printEquation() [prints array of coefficients into a polynomial], coeffValidation() [input validation for polynomial], binaryValidation() [input validation for irreducible polynomial], and removeZero() [removes leftmost zeroes coefficients in polynomial]. These were easy because it needed just basic python/coding skills.
 - b Which part(s) of the project, if any, did you find challenging to do? Describe how you solved these challenges
 - (1) I was challenged doing the functions modulo() [solves for the remainder], multiplyBitwise() [multiplies two numbers bitwise], multiply() [multiplies two polynomials], and divide() [divides two polynomials]. To be able to correctly implement these, first re-practiced solving everything by hand (and checking with the reference given to us) so I can make sure when I code it, It will print the same results when I make my code print my solution.
- 5 Reference:
 - a Galois Field Calculator: http://www.ee.unb.ca/cgi-bin/tervo/calc2.pl
 - b CS 153 Notes