

CS 115 - Winter 2007
Assignment 6
Dr Malek Mouhoub

Project

Exercise 4 page 727, 4th and 5th editions of the textbook (page 712 in 3rd edition). A simple run follows.

```
Enter number of terms of polynomial1: 4
Enter next term (coefficient exponent): -5 0
Enter next term (coefficient exponent): 0 4
Enter next term (coefficient exponent): 1 1
Enter next term (coefficient exponent): 3 2
Polynomial 1 is: 3x^2 + x - 5

Enter number of terms of polynomial 2: 3
Enter next term (coefficient exponent): 1 1
Enter next term (coefficient exponent): 2 5
Enter next term (coefficient exponent): 1 2
Polynomial 2 is: 2x^5 + x^2 + x
Polynomial 1 + Polynomial 2: 2x^5 + 4x^2 + 2x - 5
Polynomial 1 - Polynomial 2: - 2x^5 + 2x^2 - 5
```

Hand In

1. The header, implementation and driver program should be respectively named: `polynomial.h`, `polynomial.cpp` and `polynomialTest.cpp`.
2. Your C++ program **SHOULD** compile using CC (Sun compiler) under Hercules. Use the makefile available on the course webpage.
3. Submit all the above files using WebCT: www.uregina.ca/webct. You will then receive an acknowledgement email confirming your submission. You should save this email as a proof of submission. If you do not receive an email acknowledging your submission then you should promptly email the marker (mark115@cs.uregina.ca) with your submission in attachment.

Marking scheme 100% + 10% (Bonus)

1. Readability (program style) : 10%
 - Program easy to read,
 - well commented,
 - good structured (layout, indentation, whitespace, ...) and designed (following the top-down approach)
2. Compiling and execution process : 10%
 - program compiles (with CC under hercules) w/o errors and warnings
 - robustness : execution w/o run time errors
3. Correctness : 80%
 - code produces correct results (output).
 - **output meets the initial requirements (see above for the output format).**
4. Bonus : 10%
 - Features that increase functionality and/or presentation.