OOP Lab 5

Topic: Operator Overloading

Marks: (15)

Release Date: 29-Oct-20 Thursday

Submission Date & Time: 31-Oct-20 11:59 PM Saturday

You may send your lab queries at: asktoknow42@gmail.com

Exercise 1: (15)

Implement a class Polynomial having following specifications.

Class Polynomial {

private:

int array[15]; //you may assume index of the array is degree of the polynomial

public:

Polynomial(); //default ctor

Polynomial operator+(**const** Polynomial&);

int evaluate(int n):

//also perform this operation by overloading parenthesis ()

friend void operator <<(ostream &, **const** Polynomial&)

//prints polynomial, e.g. $5x^3 - 7x^2 + 9$ is displayed as follows: $5x^3 - 7x^2 + 9$

friend void operator >>(istream &, Polynomial&)

/*takes input. The function first prompt user for highest degree and then starting from the respective term in the array it prompts user to input for coefficient of every term in decreasing order of their powers. It must allow negative coefficients.*/

};

Make the functions **const** wherever possible.