**OUTPUT:-**

Enter 1 to enter polynomials.

Enter 2 to display polynomials.

Enter 3 to add polynomials.

Enter 4 to multiply polynomials.

Enter 5 to modify a polynomial.

Enter 6 to get polynomials from file.

Enter 7 to exit.

1

Enter the terms of the polynomial in descending powers.

Enter the number of terms of the polynomial 1: 3

Enter the coefficient: 5

Enter the power: 4

Enter the coefficient: 2

Enter the power: 2

Enter the coefficient: 7

Enter the power: 0

Enter the terms of the polynomial in descending powers.

Enter the number of terms of the polynomial 2: 2

Enter the coefficient: 7

Enter the power: 1

Enter the coefficient: 8

Enter the power: 0

Enter 1 to enter polynomials.

Enter 2 to display polynomials.

Enter 3 to add polynomials.

Enter 4 to multiply polynomials.

Enter 5 to modify a polynomial.

Enter 6 to get polynomials from file.

Enter 7 to exit.

2

Polynomial 1: 5x^4 + 2x^2 + 7x^0

Polynomial 2: 7x^1 + 8x^0

Enter 1 to enter polynomials.

Enter 2 to display polynomials.

Enter 3 to add polynomials.

Enter 4 to multiply polynomials.

Enter 5 to modify a polynomial.

Enter 6 to get polynomials from file.

Enter 7 to exit.

3

Addition Result is: 5x^4 + 2x^2 + 7x^1 + 15x^0

Enter 1 to enter polynomials.

Enter 2 to display polynomials.

Enter 3 to add polynomials.

Enter 4 to multiply polynomials.

Enter 5 to modify a polynomial.

Enter 6 to get polynomials from file.

Enter 7 to exit.

4

Multiplication Result is: 35x^5 + 40x^4 + 14x^3 + 16x^2 + 49x^1 + 56x^0

Enter 1 to enter polynomials.

Enter 2 to display polynomials.

Enter 3 to add polynomials.

Enter 4 to multiply polynomials.

Enter 5 to modify a polynomial.

Enter 6 to get polynomials from file.

Enter 7 to exit.

5

Which polynomial should be modified: 1 or 2?

1

Press 1 to insert a term, 2 to delete a term.

1

Enter the coefficient : 3

Enter the power : 3

Enter 1 to enter polynomials.

Enter 2 to display polynomials.

Enter 3 to add polynomials.

Enter 4 to multiply polynomials.

Enter 5 to modify a polynomial.

Enter 6 to get polynomials from file.

Enter 7 to exit.

2

Polynomial 1: 5x^4 + 3x^3 + 2x^2 + 7x^0

Polynomial 2: 7x^1 + 8x^0

Enter 1 to enter polynomials.

Enter 2 to display polynomials.

Enter 3 to add polynomials.

Enter 4 to multiply polynomials.

Enter 5 to modify a polynomial.

Enter 6 to get polynomials from file.

Enter 7 to exit.

5

Which polynomial should be modified: 1 or 2?

1

Press 1 to insert a term, 2 to delete a term.

2

Enter the power of the term to be deleted.

3

Enter 1 to enter polynomials.

Enter 2 to display polynomials.

Enter 3 to add polynomials.

Enter 4 to multiply polynomials.

Enter 5 to modify a polynomial.

Enter 6 to get polynomials from file.

Enter 7 to exit.

2

Polynomial 1: 5x^4 + 2x^2 + 7x^0

Polynomial 2: 7x^1 + 8x^0

Enter 1 to enter polynomials.

Enter 2 to display polynomials.

Enter 3 to add polynomials.

Enter 4 to multiply polynomials.

Enter 5 to modify a polynomial.

Enter 6 to get polynomials from file.

Enter 7 to exit.

6

Enter 1 to enter polynomials.

Enter 2 to display polynomials.

Enter 3 to add polynomials.

Enter 4 to multiply polynomials.

Enter 5 to modify a polynomial.

Enter 6 to get polynomials from file.

Enter 7 to exit.

2

Polynomial 1: 4x^4 + 32x^2 + 4x^1 + 5x^0

Polynomial 2: 3x^1 + 7x^0

Enter 1 to enter polynomials.

Enter 2 to display polynomials.

Enter 3 to add polynomials.

Enter 4 to multiply polynomials.

Enter 5 to modify a polynomial.

Enter 6 to get polynomials from file.

Enter 7 to exit.

7

**OUTPUT:-**

Enter 1 to enter elements of set 1 and 2.

Enter 2 to display elements of set 1 and 2.

Enter 3 for performing set union.

Enter 4 for performing set intersection.

Enter 5 for performing set difference.

Enter 6 to exit.

1

Set 1:

Enter the number of elements.

5

Enter the elements.

1 2 3 4 5

Set 2:

Enter the number of elements.

3

Enter the elements.

3 5 7

Enter 1 to enter elements of set 1 and 2.

Enter 2 to display elements of set 1 and 2.

Enter 3 for performing set union.

Enter 4 for performing set intersection.

Enter 5 for performing set difference.

Enter 6 to exit.

3

The elements of set 3 are : 1 2 3 4 5 7

Enter 1 to enter elements of set 1 and 2.

Enter 2 to display elements of set 1 and 2.

Enter 3 for performing set union.

Enter 4 for performing set intersection.

Enter 5 for performing set difference.

Enter 6 to exit.

4

The elements of set 3 are : 3 5

Enter 1 to enter elements of set 1 and 2.

Enter 2 to display elements of set 1 and 2.

Enter 3 for performing set union.

Enter 4 for performing set intersection.

Enter 5 for performing set difference.

Enter 6 to exit.

5

The elements of set 3 are : 1 2 4

Enter 1 to enter elements of set 1 and 2.

Enter 2 to display elements of set 1 and 2.

Enter 3 for performing set union.

Enter 4 for performing set intersection.

Enter 5 for performing set difference.

Enter 6 to exit.

2

The elements of set 1 are : 1 2 3 4 5

The elements of set 2 are : 3 5 7

Enter 1 to enter elements of set 1 and 2.

Enter 2 to display elements of set 1 and 2.

Enter 3 for performing set union.

Enter 4 for performing set intersection.

Enter 5 for performing set difference.

Enter 6 to exit.

6