

OUTPUT

```
~/Documents/Study/sem 3/3rdSemester/DSA/Submissions } main > clang PracticalW1a.c -o output && ./output
```

Enter your choice

1. Enter Polynomials
2. Display Polynomials
3. Add Polynomials
4. Multiply Polynomials
5. Modify Polynomials
6. Take polynomials from file
7. Exit

1

Please Enter terms in descending order of exponent

Enter the number of terms in polynomial 1: 2

Enter the coefficient: 4

Enter the power: 5

Enter the coefficient: 3

Enter the power: 2

Please Enter terms in descending order of exponent

Enter the number of terms in polynomial 2: 2

Enter the coefficient: 6

Enter the power: 7

Enter the coefficient: 6

Enter the power: 2

Enter your choice

1. Enter Polynomials
2. Display Polynomials
3. Add Polynomials
4. Multiply Polynomials
5. Modify Polynomials
6. Take polynomials from file
7. Exit

2

Polynomial 1: $4x^5 + 3x^2$

Polynomial 2: $6x^7 + 6x^2$

Enter your choice

1. Enter Polynomials
2. Display Polynomials
3. Add Polynomials
4. Multiply Polynomials
5. Modify Polynomials
6. Take polynomials from file
7. Exit

3

Addition Result is: $6x^7 + 4x^5 + 9x^2$

Enter your choice

1. Enter Polynomials
2. Display Polynomials

3. Add Polynomials
 4. Multiply Polynomials
 5. Modify Polynomials
 6. Take polynomials from file
 7. Exit
- 4

Multiplication Result is: $24x^{12} + 24x^7 + 18x^9 + 18x^4$

Enter your choice

1. Enter Polynomials
2. Display Polynomials
3. Add Polynomials
4. Multiply Polynomials
5. Modify Polynomials
6. Take polynomials from file
7. Exit

5

Enter the polynomial to modify 1 or 2

1

The polynomial is: $4x^5 + 3x^2$

Do You want to

- 1.insert
- 2.delete a term
- 3.Modify a term?

1

Enter in descending order of power ONLY

Do You want to

- 1.insert at beginning
- 2.insert at end
- 3.insert at position?

3

Enter the coefficient: 5

Enter the power: 3

Enter the position: 2

Enter your choice

1. Enter Polynomials
2. Display Polynomials
3. Add Polynomials
4. Multiply Polynomials
5. Modify Polynomials
6. Take polynomials from file
7. Exit

2

Polynomial 1: $4x^5 + 5x^3 + 3x^2$

Polynomial 2: $6x^7 + 6x^2$

Enter your choice

1. Enter Polynomials
2. Display Polynomials
3. Add Polynomials
4. Multiply Polynomials
5. Modify Polynomials

6. Take polynomials from file
7. Exit
5
Enter the polynomial to modify 1 or 2
1

The polynomial is: $4x^5 + 5x^3 + 3x^2$

Do You want to
1.insert
2.delete a term
3.Modify a term?
2
Enter the position: 2

Enter your choice
1. Enter Polynomials
2. Display Polynomials
3. Add Polynomials
4. Multiply Polynomials
5. Modify Polynomials
6. Take polynomials from file
7. Exit
2

Polynomial 1: $4x^5 + 3x^2$

Polynomial 2: $6x^7 + 6x^2$

Enter your choice
1. Enter Polynomials
2. Display Polynomials
3. Add Polynomials
4. Multiply Polynomials
5. Modify Polynomials
6. Take polynomials from file
7. Exit
7