

```
clang PracticalW1a.c -o out && ./out
~/Documents/Study/sem_3/3rdSemester/DSA/Submissions main clang PracticalW1a.c -o out && ./out

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
Enter the number of terms in polynomial 1: 4
Enter the coefficient: 9
Enter the power: 9
Enter the coefficient: 4
Enter the power: 9
Enter the coefficient: 2
Enter the power: 10
Enter the coefficient: 5
Enter the power: 3
Enter the number of terms in polynomial 2: 3
Enter the coefficient: 8
Enter the power: 6
Enter the coefficient: 3
Enter the power: 12
Enter the coefficient: 3
Enter the power: 10

Enter your choice
1. Enter Polynomials
```

Enter Polynomials

```
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3
Addition Result is: 3x^12 + 5x^10 + 13x^9 + 8x^6 + 5x^3

Enter your choice
1. Enter Polynomials
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3. Add Polynomials
4. Multiply Polynomials
5. Modify Polynomials
6. Take polynomials from file
7. Exit
4
Multiplication Result is: 6x^22 + 39x^21 + 6x^20 + 39x^19 + 16x^16 + 119x^15 + 15x^13 + 40x^9

Enter your choice
1. Enter Polynomials
2. Display Polynomials
3. Add Polynomials
4. Multiply Polynomials
```

Add & Multiply

```
clang PracticalW1a.c -o out && ./out

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: 9x^9 + 4x^9 + 2x^10 + 5x^3

Do You want to
1.insert
2.delete a term
3.Modify a term?
1
Enter the coefficient: 4
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
```

## Insert Term

```
clang PracticalW1a.c -o out && ./out

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
5
Enter the polynomial to modify 1 or 2
1

The polynomial is: 9x^9 + 4x^9 + 2x^10 + 5x^3 + 4x^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
```

## Delete Term

```
clang PracticalW1a.c -o out && ./out
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:  $9x^9 + 2x^{10} + 5x^3 + 4x^2$ 

Do You want to
1.insert
2.delete a term
3.Modify a term?
3
Enter the position: 2
Enter the coefficient: 56
Enter the power: 10

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

```
sparsh@MacbookAir:~/Documents/Study/sem_3/3rdSemester/DSA/Submissions
3.Modify a term?
3
Enter the position: 2
Enter the coefficient: 56
Enter the power: 10

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:  $56x^{10} + 9x^9 + 5x^3 + 4x^2$ 

Polynomial 2:  $3x^{12} + 3x^{10} + 8x^6$ 

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
```

## Modify a Term

```
clang PracticalW1a.c -o out && ./out

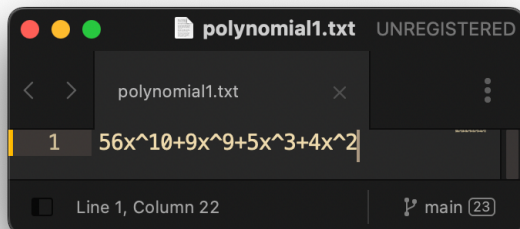
Enter your choice
1. Enter Polynomials
2. Display Polynomials
3. Add Polynomials
4. Multiply Polynomials
5. Modify Polynomials
6. Take polynomials from file
7. Exit
6
Enter the polynomial in the format 4x^3+2x^2+3x^1+5x^0 in file polynomial1.txt
Press k to continue
k
Enter the polynomial in the format 4x^3+2x^2+3x^1+5x^0 in file polynomial2.txt
Press k to continue
k

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

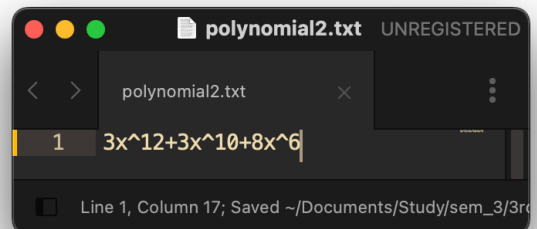
Polynomial 1: 56x^10 + 9x^9 + 5x^3 + 4x^2

Polynomial 2: 3x^12 + 3x^10 + 8x^6
```

## File Input



A screenshot of a text editor window titled "polynomial1.txt" with "UNREGISTERED" in the top right corner. The editor shows a single line of text: "56x^10+9x^9+5x^3+4x^2". The status bar at the bottom indicates "Line 1, Column 22" and "main (23)".



A screenshot of a text editor window titled "polynomial2.txt" with "UNREGISTERED" in the top right corner. The editor shows a single line of text: "3x^12+3x^10+8x^6". The status bar at the bottom indicates "Line 1, Column 17; Saved ~/Documents/Study/sem\_3/3rd" and "main (23)".