Sample Run 1:

```
~/Documents/College/Courses/DVC Summer 2024/COMSC 200/PA08 git:(main)±2 (1m 24.43s)
./polynomial_app
Enter number of polynomial terms: 3

Enter coefficient: 3
Enter exponent: 5

Enter coefficient: -2
Enter exponent: 3

Enter coefficient: 7
Enter exponent: 0

Enter number of polynomial terms: 3

Enter coefficient: -1
Enter exponent: 4

Enter coefficient: 4
Enter exponent: 3

Enter coefficient: 5
Enter exponent: 0


First polynomial is:
7+3x^5-2x^3

Second polynomial is:
5-1x^4+4x^3

Adding the polynomials yields:
12+3x^5-1x^4+2x^3

+= the polynomials yields:
12+3x^5-1x^4+2x^3

Subtracting the polynomials yields:
2+3x^5+1x^4-6x^3

-= the polynomials yields:
2+3x^5+1x^4-6x^3
```

Sample Run 2:

```
~/Documents/College/Courses/DVC Summer 2024/COMSC 200/PA08 git:(main)±2 (17.712s)
./polynomial_app
Enter number of polynomial terms: 4

Enter coefficient: 5
Enter exponent: 6

Enter coefficient: -3
Enter exponent: 4

Enter coefficient: 1
Enter exponent: 2

Enter coefficient: 2
Enter exponent: 0

Enter number of polynomial terms: 2

Enter coefficient: 6
Enter exponent: 6

Enter coefficient: -2
Enter exponent: 2


First polynomial is:
2+5x^6-3x^4+1x^2

Second polynomial is:
6x^6-2x^2

Adding the polynomials yields:
2+11x^6-3x^4-1x^2

+= the polynomials yields:
2+11x^6-3x^4-1x^2

Subtracting the polynomials yields:
2-1x^6-3x^4+3x^2

-= the polynomials yields:
2-1x^6-3x^4+3x^2
```

Sample Run 3:


~/Documents/College/Courses/DVC Summer 2024/COMSC 200/PA08 git:(main)±2 (21.5
./polynomial_app
Enter number of polynomial terms: 5
Enter coefficient: 4
Enter exponent: 7
Enter coefficient: 2
Enter exponent: 5
Enter coefficient: -3
Enter exponent: 3
Enter coefficient: 1
Enter exponent: 1
Enter coefficient: 8
Enter exponent: 0
Enter number of polynomial terms: 3
Enter coefficient: 2
Enter exponent: 7
Enter coefficient: -1
Enter exponent: 3
Enter coefficient: 5
Enter exponent: 0
First polynomial is:
8+4x^7+2x^5-3x^3+1x
Second polynomial is:
5+2x^7-1x^3
Adding the polynomials yields:
13+6x^7+2x^5-4x^3+1x
+= the polynomials yields:
13+6x^7+2x^5-4x^3+1x
Subtracting the polynomials yields:
3+2x^7+2x^5-2x^3+1x
-= the polynomials yields:
3+2x^7+2x^5-2x^3+1x

Sample Run 4:

```
~/Documents/College/Courses/DVC Summer 2024/COMSC 200/PA08 git:(main)±2 (20.3
./polynomial_app
Enter number of polynomial terms: 3

Enter coefficient: -3
Enter exponent: 8

Enter coefficient: 6
Enter exponent: 4

Enter coefficient: -1
Enter exponent: 0

Enter number of polynomial terms: 4

Enter coefficient: 2
Enter exponent: 8

Enter coefficient: -4
Enter exponent: 6

Enter coefficient: 1
Enter exponent: 4

Enter coefficient: 2
Enter exponent: 0


First polynomial is:
-1-3x^8+6x^4

Second polynomial is:
2+2x^8-4x^6+1x^4

Adding the polynomials yields:
1-1x^8-4x^6+7x^4

+= the polynomials yields:
1-1x^8-4x^6+7x^4

Subtracting the polynomials yields:
-3-5x^8+4x^6+5x^4

-= the polynomials yields:
-3-5x^8+4x^6+5x^4
```

Sample Run 5:

```
~/Documents/College/Courses/DVC Summer 2024/COMSC 200/PA08 git:(main)±2 (19.4(
./polynomial_app
Enter number of polynomial terms: 4

Enter coefficient: 7
Enter exponent: 9

Enter coefficient: -5
Enter exponent: 5

Enter coefficient: 3
Enter exponent: 2

Enter coefficient: 1
Enter exponent: 0

Enter number of polynomial terms: 3

Enter coefficient: 3
Enter exponent: 7

Enter coefficient: -2
Enter exponent: 5

Enter coefficient: 4
Enter exponent: 0


First polynomial is:
1+7x^9-5x^5+3x^2

Second polynomial is:
4+3x^7-2x^5

Adding the polynomials yields:
5+7x^9+3x^7-7x^5+3x^2

+= the polynomials yields:
5+7x^9+3x^7-7x^5+3x^2

Subtracting the polynomials yields:
-3+7x^9-3x^7-3x^5+3x^2

-= the polynomials yields:
-3+7x^9-3x^7-3x^5+3x^2
```