Case 1
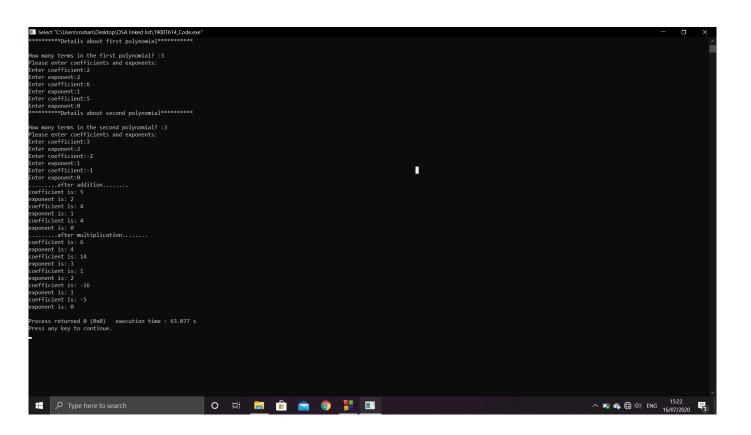
Input functions:

$2x^2+6x+5$ and $3x^2-2x-1$

Outputs:

Addition: $5x^2+4x+4$

Multiplication: $6x^4+14x^3+x^2-16x-5$

```
Select "C:\Users\roshan\Desktop\DSA linked list\19001614_Code.exe"
**********Details about first polynomial**********

How many terms in the first polynomial? :3
Please enter coefficients and exponents:
Enter coefficient:2
Enter exponent:2
Enter coefficient:6
Enter exponent:1
Enter coefficient:5
Enter exponent:0
**********Details about second polynomial**********

How many terms in the second polynomial? :3
Please enter coefficients and exponents:
Enter coefficient:3
Enter exponent:2
Enter coefficient:-2
Enter exponent:1
Enter coefficient:-1
Enter exponent:0
.........after addition........
coefficient is: 5
exponent is: 2
coefficient is: 4
exponent is: 1
coefficient is: 4
exponent is: 0
.........after multiplication........
coefficient is: 6
exponent is: 4
coefficient is: 14
exponent is: 3
coefficient is: 1
exponent is: 2
coefficient is: -16
exponent is: 1
coefficient is: -5
exponent is: 0

Process returned 0 (0x0)   execution time : 63.077 s
Press any key to continue.
```
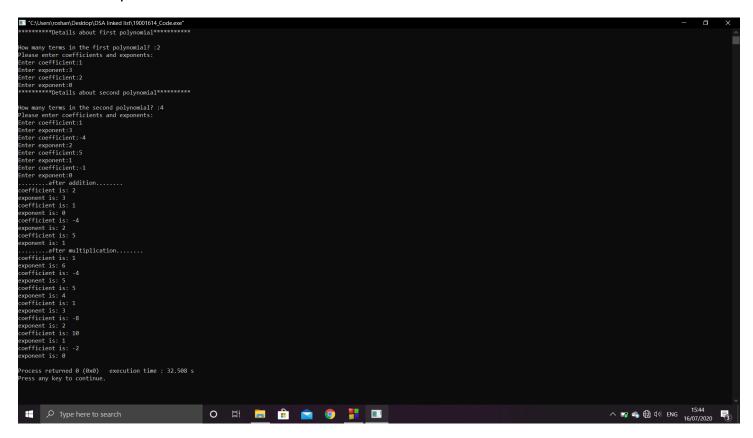
Case 2

Input functions:

X^3+2 and x^3-4x^2+5x-1

Outputs:

Addition: $2x^3+1-4x^2+5x$

Multiplication: $x^6-4x^5+5x^4+x^3-8x^2+10x-2$


```
"C:\Users\roshan\Desktop\DSA linked list\19001614_Code.exe"
**********Details about first polynomial***********

How many terms in the first polynomial? :2
Please enter coefficients and exponents:
Enter coefficient:1
Enter exponent:3
Enter coefficient:2
Enter exponent:0
**********Details about second polynomial**********

How many terms in the second polynomial? :4
Please enter coefficients and exponents:
Enter coefficient:1
Enter exponent:3
Enter coefficient:-4
Enter exponent:2
Enter coefficient:5
Enter exponent:1
Enter coefficient:-1
Enter exponent:0
.........after addition........
coefficient is: 2
exponent is: 3
coefficient is: 1
exponent is: 0
coefficient is: -4
exponent is: 2
coefficient is: 5
exponent is: 1
.........after multiplication........
coefficient is: 1
exponent is: 6
coefficient is: -4
exponent is: 5
coefficient is: 5
exponent is: 4
coefficient is: 1
exponent is: 3
coefficient is: -8
exponent is: 2
coefficient is: 10
exponent is: 1
coefficient is: -2
exponent is: 0

Process returned 0 (0x0)   execution time : 32.508 s
Press any key to continue.
```

Case 3

Input functions:

2x+1 and x^2-5

Outputs:

Addition:

2x-4+x^2

Multiplication:

$2x^3$-10x+x^2-5