**WONG KAI YUAN (DC026157) CISC1001 (Assignment 9)**

#include <stdio.h>

**int** main (**void**) {­­

**int** power1, power2;

**int** i,j;

**int** A[1000], B[1000],product[1000];

printf ("Enter the power of 1st polynomial : ");

scanf ("%d", &power1);

power1 = power1 +1;

printf ("Enter the coefficient of 1st polynomial (c+ax+bx^2...) \n(Write 0 if coefficient is 0) : ");

**for** (i=0;i<power1;i++){

scanf ("%d", &A[i]);

}

printf ("Enter the power of 2nd polynomial : ");

scanf ("%d", &power2);

power2 = power2 +1;

printf ("Enter the coefficient of 1st polynomial (c+ax+bx^2...) \n(Write 0 if coefficient is 0) : ");

**for** (j=0;j<power2;j++){

scanf ("%d", &B[j]);

}

/\*Calculation Part\*/

**for** (i=0;i<(power1+power2-1);i++){

product[i] = 0;

}

**for** (i=0;i<power1;i++){

**for** (j=0;j<power2;j++){

product[i+j] = product[i+j] + A[i] \* B[j];

}

}

printf ("The product of 2 polynomial is : ");

**for** (i=0;i<(power1+power2-1);i++){

printf(" %dx^%d ",product[i],i);

**while** (i != (power1+power2-2)){

printf ("+");

**break**;

}

**while** (i == (power1+power2-2)){

printf ("\n");

**break**;

}

}

}

Text

Description automatically generated