```c
/*#########################################################################*/
/*HW00_HASAN_MEN_131044009_part2.c                                         */
/*_____________________________                                            */
/*Written by Hasan MEN on February 14, 2015                                */
/*                                                                         */
/*Description                                                              */
/*___________                                                              */
/*Takes the coefficients of polies and find multiplication of polies       */
/*Inputs:                                                                  */
/*  -Coefficients of the 2nd degree polynomials                            */
/*Outputs:                                                                 */
/*  -Resulting 2nd degree polynomials                                      */
/*  -The multiplication of them(4th degree poly)                           */
/*#########################################################################*/
/*                                                                         */
/*-------------------------------------------------------------------------*/
/*                                  Includes                               */
/*-------------------------------------------------------------------------*/
#include <stdio.h>

int
main(){
    /* Start_of_main */
    /*coefficients of input polynomials */
    double  coefA, coefB, coefC,
            coefD, coefE, coefF;

    /*coefficients of output poly*/
    double newCoefA, newCoefB, newCoefC, newCoefD, newCoefE;
    /* enf of variables */

    /*Get first polynomial*/
    printf("Enter the coefficients of the first poly(from A to C -AX^2+BX+C)>");
    scanf("%lf%lf%lf", &coefA, &coefB, &coefC);

    /*Get the second polynomial*/
    printf("Enter the coefficients of the second poly(from D to E-DX^2+EX+F)>");
    scanf("%lf%lf%lf", &coefD, &coefE, &coefF);

    /*Check the polynomials on screen */
    printf("1st Poly is %3.2f*x^2 + %3.2f*x + %3.2f \n", coefA, coefB, coefC);
    printf("2nd Poly is %3.2f*x^2 + %3.2f*x + %3.2f \n\n", coefD, coefE, coefF);

    /*Calculate new coefficient of 4th degree polynomial*/
    newCoefA = (coefA * coefD);
    newCoefB = (coefA * coefE)+(coefB * coefD);
    newCoefC = (coefA * coefF)+(coefB * coefE)+(coefC * coefD);
    newCoefD = (coefB * coefF)+(coefC * coefE);
    newCoefE = (coefC * coefF);

    /*Output the multiplication of 2 two polies*/
    printf("The multiplication of polies => \n ");
    printf("(%.1f)X^4 + (%.1f)X^3 + (%.1f)X^2 + (%.1f)X + (%.1f)\n",
                newCoefA, newCoefB, newCoefC, newCoefD, newCoefE);
    return 0;
}

/*#########################################################################*/
/*                   End of HW00_HASAN_MEN_131044009_part2.c               */
/*#########################################################################*/
```