```c
/*********************************************************************************/
/*HW00_AhmetEmin_Kaplan_131044042_part1.c                                        */
/*_____________________________________                                          */
/*Written by Ahmet Emin Kaplan on February 14, 2015                              */
/*                                                                               */
/*Description                                                                    */
/*___________                                                                    */
/*Takes the integral of a given 1st degree polynomial                            */
/*Inputs:                                                                        */
/*  -Coefficients of the 1st degree polynomial                                   */
/*  -Zero input value of the resulting polynomial                                */
/*Outputs:                                                                       */
/*  -Resulting 2nd degree polynomial                                             */
/*********************************************************************************/
/*                                                                               */
/*-------------------------------------------------------------------------------*/
/*                          Includes                                             */
/*-------------------------------------------------------------------------------*/
#include <stdio.h>
#define CORRECTION_FOR_COEFFICIENT 0.5


int main()
{
    double ia0,ia1;            /*Coefficients of the input poly*/
    double p0;                 /*P(0) value of the resulting poly*/
    double ra1,ra2;        /*Coefficients of the resulting poly*/

    /*Get the 1st degree input polynomial*/
    printf("Enter the coefficients of the polynomial (higher to lower order)>");
    scanf("%lf%lf",&ia1,&ia0);
    printf("Your input polynomial is\n%fx + (%f) .\n",ia1,ia0);

    /*Get the zero input value of the resulting poly*/
    printf("Enter p(0) value for the resulting polynomial>");
    scanf("%lf",&p0);

    /*Calculate the resulting poly*/
    ra1 = ia0;
    ra2 = ia1*CORRECTION_FOR_COEFFICIENT;

    /*Output the resulting poly*/
    printf("The resulting polinomial is\n");
    printf("%5.3fx^2 + (%5.3f)x + (%5.3f) .\n",ra2,ra1,p0);

    return(0);
}

/*********************************************************************************/
/*              End of HW00_AhmetEmin_Kaplan_131044042_part1.c                   */
/*********************************************************************************/
```