```
1
2
    /*HW01 HASAN MEN 131044009 part2.c
                                                             */
3
    /*Written by Hasan MEN on February 19, 2015
                                                             */
4
5
    /*Description:
6
7
R
    /*This probram, take 2 function and find commoncoefficient.
9
    /*than its write x and y on new funciton and calculate
10
    /*INPUT:
11
       -Coefficients of funcitons
12
    /* -COefficient of 3rd func. to calculate new value
13
    /*OUTPUT:
                                                             */
14
    /*
                                                             */
15
    /*
                                                             */
        -x and y :commond coef.
16
17
        -F(x,y) : result of 3rd function
                                                             */
    18
    #include <stdio.h>
19
20
    int main(){
21
        /*START OF MAIN*/
22
                                      /*func 1*/
23
        double cf0ne1,cf0ne2,res0ne;
24
        double cfTwo1,cfTwo2,resTwo;
                                      /*func 2*/
25
        double x,y; /*commont coef*/
        double cfFuncA,cfFuncB; /*func 3*/
26
       FILE *equ; /* func1 and func2 coef. file pointer */
FILE *func; /* func3 coef file pointer*/
27
28
        FILE *rslt; /* resault[F(x,y)] file pointer*/
29
        /*END OF VARIABLES*/
30
31
32
        /*Opening i/o file*/
33
        equ = fopen("EqCoefficients.txt","r");
        func = fopen("FuncCoefficients.txt","r");
34
        rslt = fopen("Results2.txt","w");
35
36
37
        /*scaning coefficients of func1 and func2 from equ file*/
        printf("Reading Coefficient of Equation 1 --> ");
38
39
        fscanf(equ,"%lf%lf%lf",&cf0ne1,&cf0ne2,&res0ne);
        printf("First equation => %.2fX + %.2fY = %.2f\n",cfOne1,cfOne2,resOne);
40
        printf("Reading Coefficient of Equation 2 --> ");
41
        fscanf(equ,"%lf%lf%lf",&cfTwo1,&cfTwo2,&resTwo);
42
43
        printf("Second equation => %.2fX + %.2fY = %.2f\n",cfTwo1,cfTwo2,resTwo);
44
45
        /*CALCULATE X VALUE */
        x = (((-cfTwo2)*res0ne)+(cf0ne2*resTwo))/(cf0ne1*(-cfTwo2)+(cf0ne2*cfTwo1));
46
47
        printf("X => %.2f\n",x);
48
        /* CALCULATE Y VALUE with using value of x^*/
49
        y = ((res0ne-(x*cf0ne1)) / cf0ne2);
50
        printf("Y => %.2f\n",y);
51
52
        /*Printf file x and y */
53
54
        fprintf(rslt, "%.2f\t%.2f\t",x,y);
55
        /*Scan coeffients of function 3 */
56
        printf("Reading Coefficient of Function --> ");
57
        fscanf(func, "%lf%lf", &cfFuncA, &cfFuncB);
58
        printf("Function => %.2fX + %.2fY\n",cfFuncA,cfFuncB);
59
60
61
        /* print screen and file value of new func3 */
        printf("F(x,y) = %.2f\n",x*cfFuncA+y*cfFuncB);
62
        fprintf(rslt,"%.2f",x*cfFuncA+y*cfFuncB);
63
64
        /*CLOSE FILE*/
65
66
        fclose(equ);
67
        fclose(func);
       fclose(rslt);
68
69
        return 0;
70
        /*END_OF_MAIN*/
71
    72
73
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    74
```