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1  #include <stdio.h>
2
3  // DEFINING STRUCT
4  struct MyData
5  {
6      int i;
7      float f;
8      double d;
9      char c;
10 };
11
12 int main(void)
13 {
14     //function prototype
15     struct MyData AddStructMembers(struct MyData, struct MyData, struct MyData);
16
17     //variable declarations
18     struct MyData data1, data2, data3, answer_data;
19
20     //code
21     // *** data1 ***
22     printf("\n\n\n\n");
23     printf("***** DATA 1 *****\n\n");
24     printf("Enter Integer Value For 'i' Of 'struct MyData data1' : ");
25     scanf("%d", &data1.i);
26
27     printf("\n\n");
28     printf("Enter Floating-Point Value For 'f' Of 'struct MyData data1' : ");
29     scanf("%f", &data1.f);
30
31     printf("\n\n");
32     printf("Enter 'Double' Value For 'd' Of 'struct MyData data1' : ");
33     scanf("%lf", &data1.d);
34
35     printf("\n\n");
36     printf("Enter Character Value For 'c' Of 'struct MyData data1' : ");
37     data1.c = getch();
38     printf("%c", data1.c);
39
40     // *** data2 ***
41     printf("\n\n\n\n");
42     printf("***** DATA 2 *****\n\n");
43     printf("Enter Integer Value For 'i' Of 'struct MyData data2' : ");
44     scanf("%d", &data2.i);
45
46     printf("\n\n");
47     printf("Enter Floating-Point Value For 'f' Of 'struct MyData data2' : ");
48     scanf("%f", &data2.f);
49
50     printf("\n\n");
51     printf("Enter 'Double' Value For 'd' Of 'struct MyData data2' : ");
52     scanf("%lf", &data2.d);
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53
54     printf("\n\n");
55     printf("Enter Character Value For 'c' Of 'struct MyData data2' : ");
56     data2.c = getch();
57     printf("%c", data2.c);
58
59     // *** data3 ***
60     printf("\n\n\n\n");
61     printf("***** DATA 3 *****\n\n");
62     printf("Enter Integer Value For 'i' Of 'struct MyData data3' : ");
63     scanf("%d", &data3.i);
64
65     printf("\n\n");
66     printf("Enter Floating-Point Value For 'f' Of 'struct MyData data3' : ");
67     scanf("%f", &data3.f);
68
69     printf("\n\n");
70     printf("Enter 'Double' Value For 'd' Of 'struct MyData data3' : ");
71     scanf("%lf", &data3.d);
72
73     printf("\n\n");
74     printf("Enter Character Value For 'c' Of 'struct MyData data3' : ");
75     data3.c = getch();
76     printf("%c", data3.c);
77
78     // *** CALLING FUNCTION AddStructMembers() WHICH ACCEPTS THREE VARIABLES OF
79     // TYPE 'struct MyData' AS PARAMETERS AND ADDS UP THE RESPECTIVE MEMBERS AND
80     // RETURNS THE ANSWER IN ANOTHER struct OF SAME TYPE ***
81     answer_data = AddStructMembers(data1, data2, data3);
82
83     printf("\n\n\n\n");
84     printf("***** ANSWER *****\n\n");
85     printf("answer_data.i = %d\n", answer_data.i);
86     printf("answer_data.f = %f\n", answer_data.f);
87     printf("answer_data.d = %lf\n\n", answer_data.d);
88
89     answer_data.c = data1.c;
90     printf("answer_data.c (from data1) = %c\n\n", answer_data.c);
91
92     answer_data.c = data2.c;
93     printf("answer_data.c (from data2) = %c\n\n", answer_data.c);
94
95     answer_data.c = data3.c;
96     printf("answer_data.c (from data3) = %c\n\n", answer_data.c);
97
98     return(0);
99 }
100
101 struct MyData AddStructMembers(struct MyData md_one, struct MyData md_two, struct
102                                MyData md_three)
103 {
104     //variable declarations

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```
102     struct MyData answer;
103
104     //code
105     answer.i = md_one.i + md_two.i + md_three.i;
106     answer.f = md_one.f + md_two.f + md_three.f;
107     answer.d = md_one.d + md_two.d + md_three.d;
108     return(answer);
109 }
110
```