

```
1  #include <stdio.h>
2
3  // DEFINING STRUCT
4  struct MyData
5  {
6      int i;
7      float f;
8      double d;
9  };
10
11 struct MyData data; //Declaring a single struct variable of type 'struct MyData' globally ...
12
13 int main(void)
14 {
15     //variable declarations
16     int i_size;
17     int f_size;
18     int d_size;
19     int struct_MyData_size;
20
21     //code
22     //Assigning Data Values To The Data Members Of 'struct MyData'
23     data.i = 30;
24     data.f = 11.45f;
25     data.d = 1.2995;
26
27     //Displaying Values Of The Data Members Of 'struct MyData'
28     printf("\n\n");
29     printf("DATA MEMBERS OF 'struct MyData' ARE : \n\n");
30     printf("i = %d\n", data.i);
31     printf("f = %f\n", data.f);
32     printf("d = %lf\n", data.d);
33
34     //Calculating Sizes (In Bytes) Of The Data Members Of 'struct MyData'
35     i_size = sizeof(data.i);
36     f_size = sizeof(data.f);
37     d_size = sizeof(data.d);
38
39     //Displaying Sizes (In Bytes) Of The Data Members Of 'struct MyData'
40     printf("\n\n");
41     printf("SIZES (in bytes) OF DATA MEMBERS OF 'struct MyData' ARE : \n\n");
42     printf("Size of 'i' = %d bytes\n", i_size);
43     printf("Size of 'f' = %d bytes\n", f_size);
44     printf("Size of 'd' = %d bytes\n", d_size);
45
46     //Calculating Size (In Bytes) Of the entire 'struct Mydata'
47     struct_MyData_size = sizeof(struct MyData); //can also give struct name -> sizeof(MyData)
48
49     //Displaying Sizes (In Bytes) Of the entire 'struct Mydata'
50     printf("\n\n");
51     printf("Size of 'struct MyData' : %d bytes\n\n", struct_MyData_size);
52
53     return(0);
54 }
55
```