```
1 #include <stdio.h>
 2
 3 // DEFINING STRUCT
 4 struct MyData
 5 {
 6
        int i;
 7
        float f;
        double d;
 8
 9 };
10
11 int main(void)
12 {
        //variable declarations
13
14
        int i size;
15
       int f_size;
16
        int d_size;
        int struct_MyData_size;
17
        int pointer_to_struct_MyData_size;
19
20
       struct MyData *pData = NULL;
21
       //code
22
        printf("\n\n");
23
24
25
        pData = (struct MyData *)malloc(sizeof(struct MyData));
26
       if (pData == NULL)
27
        {
            printf("FAILED TO ALLOCATE MEMORY TO 'sturct MyData' !!! EXITTING NOW ... >
28
29
            exit(0);
30
        }
31
        else
            printf("SUCCESSFULLY ALLOCATED MEMORY TO 'sturct MyData' !!!\n\n");
32
33
34
35
        //Assigning Data Values To The Data Members Of 'struct MyData'
36
        pData->i = 30;
        pData->f = 11.45f;
37
        pData->d = 1.2995;
38
39
40
       //Displaying Values Of The Data Members Of 'struct MyData'
41
        printf("\n\n");
42
        printf("DATA MEMBERS OF 'struct MyData' ARE : \n\n");
        printf("i = %d\n", pData->i);
43
44
        printf("f = %f\n", pData->f);
45
        printf("d = %lf\n", pData->d);
46
47
       //Calculating Sizes (In Bytes) Of The Data Members Of 'struct MyData'
48
        i_size = sizeof(pData->i);
49
        f_size = sizeof(pData->f);
50
        d_size = sizeof(pData->d);
51
```

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...ts\01-SimpleStructPointer\Method_02\SimpleStructPointer.c
```

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2
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```
//Displaying Sizes (In Bytes) Of The Data Members Of 'struct MyData'
53
       printf("\n\n");
54
        printf("SIZES (in bytes) OF DATA MEMBERS OF 'struct MyData' ARE : \n\n");
       printf("Size of 'i' = %d bytes\n", i_size);
55
       printf("Size of 'f' = %d bytes\n", f_size);
56
57
       printf("Size of 'd' = %d bytes\n", d_size);
58
59
       //Calculating Size (In Bytes) Of the entire 'struct Mydata'
60
        struct_MyData_size = sizeof(struct MyData);
61
       pointer_to_struct_MyData_size = sizeof(struct MyData *);
62
      //Displaying Sizes (In Bytes) Of the entire 'struct Mydata'
63
64
       printf("\n\n");
       printf("Size of 'struct MyData' : %d bytes\n\n", struct_MyData_size);
65
66
       printf("Size of pointer to 'struct MyData' : %d bytes\n\n",
          pointer_to_struct_MyData_size);
67
       if (pData)
68
69
70
            free(pData);
            pData = NULL;
71
            printf("MEMORY ALLOCATED TO 'struct MyData' HAS BEEN SUCCESSFULLY
72
              FREED !!!\n\n");
73
       }
74
75
       return(0);
76 }
77
78
```