

```
1 #include <stdio.h>
2
3 #define MAX_NAME_LENGTH 100
4
5 struct Employee
6 {
7     char name[MAX_NAME_LENGTH];
8     unsigned int age;
9     char gender;
10    double salary;
11 };
12
13 struct MyData
14 {
15     int i;
16     float f;
17     double d;
18     char c;
19 };
20
21 int main(void)
22 {
23     // Typedefs
24     typedef struct Employee MY_EMPLOYEE_TYPE;
25     typedef struct MyData MY_DATA_TYPE;
26
27     // variable declarations
28     struct Employee emp = {"Funny", 25, 'M', 10000.00};
29     MY_EMPLOYEE_TYPE emp_typedef = {"Bunny", 23, 'F', 20400.00};
30
31     struct MyData md = {30, 11.45f, 26.122017, 'X'};
32     MY_DATA_TYPE md_typedef;
33
34     // code
35     md_typedef.i = 9;
36     md_typedef.f = 1.5f;
37     md_typedef.d = 8.041997;
38     md_typedef.c = 'P';
39
40     printf("\n\n");
41     printf("struct Employee : \n\n");
42     printf("emp.name    = %s\n", emp.name);
43     printf("emp.age      = %d\n", emp.age);
44     printf("emp.gender   = %c\n", emp.gender);
45     printf("emp.salary   = %lf\n", emp.salary);
46
47     printf("\n\n");
48     printf("MY_EMPLOYEE_TYPE : \n\n");
49     printf("emp_typedef.name    = %s\n", emp_typedef.name);
50     printf("emp_typedef.age     = %d\n", emp_typedef.age);
51     printf("emp_typedef.gender  = %c\n", emp_typedef.gender);
52     printf("emp_typedef.salary  = %lf\n", emp_typedef.salary);
```

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53
54     printf("\n\n");
55     printf("struct MyData : \n\n");
56     printf("md.i = %d\n", md.i);
57     printf("md.f = %f\n", md.f);
58     printf("md.d = %lf\n", md.d);
59     printf("md.c = %c\n", md.c);
60
61     printf("\n\n");
62     printf("MY_DATA_TYPE : \n\n");
63     printf("md_typedef.i = %d\n", md_typedef.i);
64     printf("md_typedef.f = %f\n", md_typedef.f);
65     printf("md_typedef.d = %lf\n", md_typedef.d);
66     printf("md_typedef.c = %c\n", md_typedef.c);
67
68     printf("\n\n");
69     return(0);
70 }
71
72
73
```