

```

1  #include <stdio.h>
2
3  // Global typedef
4  typedef int MY_INT; // "type" int has been re"def"ined as MY_INT ... Now, "MY_INT" ↗
    can be treated just like "int"
5
6  int main(void)
7  {
8      // Function prototype
9      MY_INT Add(MY_INT, MY_INT);
10
11     // Typedefs
12     typedef int MY_INT; // "type" int has been re"def"ined as MY_INT ... Now, ↗
        "MY_INT" can be treated just like "int"
13     typedef float PVG_FLOAT; // "type" float has been re"def"ined as PVG_FLOAT ... ↗
        Now, "MY_FLOAT" can be treated just like "float"
14     typedef char CHARACTER; // "type" char has been re"def"ined as CHARACTER ... ↗
        Now, "CHARACTER" can be treated just like "char"
15     typedef double MY_DOUBLE; // "type" double has been re"def"ined as ↗
        MY_DOUBLE ... Now, "MY_DOUBLE" can be treated just like "double"
16
17     // ***** JUST LIKE IN Win32SDK !!! *****
18     typedef unsigned int UINT;
19     typedef UINT HANDLE;
20     typedef HANDLE HWND;
21     typedef HANDLE HINSTANCE;
22
23     // variable declarations
24     MY_INT a = 10, i;
25     MY_INT iArray[] = { 9, 18, 27, 36, 45, 54, 63, 72, 81, 90 };
26
27     PVG_FLOAT f_pvg = 30.9f;
28     const PVG_FLOAT f_pvg_pi = 3.14f;
29
30     CHARACTER ch = '*';
31     CHARACTER chArray_01[] = "Hello";
32     CHARACTER chArray_02[][10] = { "RTR", "Batch", "2020-2021" };
33
34     MY_DOUBLE d = 8.041997;
35
36     // ***** JUST RANDOM NUMBERS - THEY HAVE NOTHING TO DO WITH ANY WINDOW'S ↗
        HANDLE OR INSTANCE HANDLE !!! This is just for understanding *****
37     UINT uint = 3456;
38     HANDLE handle = 987;
39     HWND hwnd = 9876;
40     HINSTANCE hInstance = 14466;
41
42     // code
43     printf("\n\n");
44     printf("Type MY_INT variable a = %d\n", a);
45
46     printf("\n\n");

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47     for (i = 0; i < (sizeof(iArray) / sizeof(int)); i++)
48     {
49         printf("Type MY_INT array variable iArray[%d] = %d\n", i, iArray[i]);
50     }
51     printf("\n\n");
52
53     printf("\n\n");
54     printf("Type PVG_FLOAT variable f = %f\n", f_pvg);
55     printf("Type PVG_FLOAT constanct f_pvg_pi = %f\n", f_pvg_pi);
56
57     printf("\n\n");
58     printf("Type MY_DOUBLE variable d = %lf\n", d);
59
60     printf("\n\n");
61     printf("Type CHARACTER variable ch = %c\n", ch);
62
63     printf("\n\n");
64     printf("Type CHARACTER array variable chArray_01 = %s\n", chArray_01);
65
66     printf("\n\n");
67     for (i = 0; i < (sizeof(chArray_02) / sizeof(chArray_02[0])); i++)
68     {
69         printf("%s\t", chArray_02[i]);
70     }
71     printf("\n\n");
72
73     printf("\n\n");
74     printf("Type UINT variable uint = %u\n\n", uint);
75     printf("Type HANDLE variable handle = %u\n\n", handle);
76     printf("Type HWND variable hwnd = %u\n\n", hwnd);
77     printf("Type HINSTANCE variable hInstance = %u\n\n", hInstance);
78     printf("\n\n");
79
80     MY_INT x = 90;
81     MY_INT y = 30;
82     MY_INT ret;
83
84     ret = Add(x, y);
85     printf("ret = %d\n\n", ret);
86
87     return(0);
88 }
89
90 MY_INT Add(MY_INT a, MY_INT b)
91 {
92     // code
93     MY_INT c;
94     c = a + b;
95     return(c);
96 }
97
```