

ShowString.cpp

```
1  /* Show String in Win32 Windows */
2  #include <Windows.h>
3
4  LRESULT CALLBACK WndProc(HWND, UINT, WPARAM, LPARAM);
5
6  int WINAPI WinMain(HINSTANCE hInstance, HINSTANCE hPrevInstance,
7  PSTR szCmdLine, int iCmdShow) {
8      static TCHAR szAppName[] = TEXT("Hello");
9      HWND          hwnd;
10     MSG           msg;
11     WNDCLASS      wndclass;
12
13     wndclass.style = CS_HREDRAW | CS_VREDRAW;
14     wndclass.lpfnWndProc = WndProc;
15     wndclass.cbClsExtra = 0;
16     wndclass.cbWndExtra = 0;
17     wndclass.hInstance = hInstance;
18     wndclass.hIcon = LoadIcon(NULL, IDI_APPLICATION);
19     wndclass.hCursor = LoadCursor(NULL, IDC_ARROW);
20     wndclass.hbrBackground = (HBRUSH) GetStockObject(WHITE_BRUSH);
21     wndclass.lpszMenuName = NULL;
22     wndclass.lpszClassName = szAppName;
23
24     if (!RegisterClass(&wndclass)) {
25         MessageBox(NULL, TEXT("Program requires Windows NT!"),
26             szAppName, MB_ICONERROR);
27         return 0;
28     }
29
30     hwnd = CreateWindow(szAppName, TEXT("Hello World"),
31         WS_OVERLAPPEDWINDOW,
32         CW_USEDEFAULT, CW_USEDEFAULT,
33         CW_USEDEFAULT, CW_USEDEFAULT,
34         NULL, NULL, hInstance, NULL);
35
36     ShowWindow(hwnd, iCmdShow);
37     UpdateWindow(hwnd);
38
39     while (GetMessage(&msg, NULL, 0, 0)) {
40         TranslateMessage(&msg);
41         DispatchMessage(&msg);
42     }
43     return msg.wParam;
44 }
45
46 LRESULT CALLBACK WndProc(HWND hwnd, UINT message, WPARAM wParam, LPARAM lParam) {
47     HDC hdc;
48     static int cxClient, cyClient;
49     switch (message) {
50     case WM_SIZE:
51         cxClient = LOWORD(lParam);
52         cyClient = HIWORD(lParam);
53         return 0;
54
55     case WM_PAINT:
56         hdc = GetDC(hwnd);
57         TextOutW(hdc, cxClient / 2 - 40, cyClient / 2 - 10, L"Hello world!", 12);
58         ReleaseDC(hwnd, hdc);
59         return 0;
60     case WM_DESTROY:
61         PostQuitMessage(0);
62         return 0;
63     default:
64         return DefWindowProc(hwnd, message, wParam, lParam);
65     }
66 }
```