|  |  |
| --- | --- |
| **Ex13-04.cpp:** *Parameter Passing Mechanisms* | |
| **Line#** | **Code** |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45 | #include <iostream>  using namespace std;  #define ByValue 1  #define ByAddressAsValue 2  #define ByReference 3  #define \_\_DEMO\_\_ ByValue  void Swap1(int x, int y) {  int temp = x;  x = y;  y = temp;  }  void Swap2(int\* x, int\* y) {  int temp = \*x;  \*x = \*y;  \*y = temp;  }  void Swap3(int& x, int& y) {  int temp = x;  if (x=y)  x = y;  y = temp;  }  int main(){  int x = 5;  int y = 7;  cout << "x is " << x << " and y is " << y << endl;  #if \_\_DEMO\_\_==ByValue  Swap1(x, y);  #elif \_\_DEMO\_\_==ByAddressAsValue  Swap2(&x, &y);  #else \_\_DEMO\_\_==ByReference  Swap3(x, y);  #endif  cout << "x is " << x << " and y is " << y << endl;  return 0;  } |