**Pointers and Arrays**

// arrnote.cpp

// array accessed with array notation

#include <iostream>

using namespace std;

int main()

 { //array

 int intarray[5] = { 31, 54, 77, 52, 93 };

 for(int j=0; j<5; j++) //for each element,

 cout << intarray[j] << endl; //print value

 return 0;

 }

// array accessed with pointer notation

#include <iostream>

using namespace std;

int main()

 { //array

 int intarray[5] = { 31, 54, 77, 52, 93 };

 for(int j=0; j<5; j++) //for each element,

 cout << \*(intarray+j) << endl; //print value

 return 0;

 }

// passarr.cpp

// array passed by pointer

#include <iostream>

using namespace std;

const int MAX = 5; //number of array elements

int main()

 {

 void centimize(double\*); //prototype

 double varray[MAX] = { 10.0, 43.1, 95.9, 59.7, 87.3 };

 centimize(varray); //change elements of varray to cm

 for(int j=0; j<MAX; j++) //display new array values

 cout << "varray[" << j << "]="

 << varray[j] << " centimeters" << endl;

 return 0;

 }

//--------------------------------------------------------------

void centimize(double\* ptrd)

 {

 for(int j=0; j<MAX; j++)

 \*ptrd++ \*= 2.54; //ptrd points to elements of varray