//Pointer demonstration

#include <iostream>

using namespace std;

int main()

{

//Delare an integer

int number;

//Delare a pointer to an integer

int\* pNumber;

//Make pNumber point to integer number

pNumber = &number;

//Put 42 in number using pointer

\*pNumber = 42;

//Print number using a pointer

cout << "The value of number = " << \*pNumber << endl;

//Print the address of number

cout << "The address of number is " << pNumber << endl;

//Create a pointer to pNumber

int\*\* ppNumber;

//Make ppNumber point to pNumber

ppNumber = &pNumber;

//Print number using ppNumber

cout << "Printing number using ppNumber " << \*\*ppNumber << endl;

//Print out the addess of number, pNumber, and ppNumber

cout << "The address of number is " << pNumber << endl;

cout << "The address of pNumber is " << ppNumber << endl;

cout << "The address of ppNumber is " << &ppNumber << endl;

return 0;

}