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/*****************************************************************************
*       Author:                 Jessica Schuler
*       Date Created:           11-10-13
*       Filename:               l7.cpp
*
*       Overview:
*       This program demonstrates pointers.
*       Input:
*               There is no user input
*       Output:
*       The output shows the value of a variable and then
*       the address of the pointer pointing to that variable.
*
*****************************************************************************/

#include<iostream>

using namespace std;

int main ()
{
    //defined variables and pointer
    double d1 = 7.8;
        double d2 = 10.0;
    double d3 = .009;
    double *d;

    d=&d1;//sets the pointer to d1 variable
    cout<<"The d1 value is: "<<*d<<endl;//shows value of d1 using pointer
    cout<<"The d1 address is: "<<&d1<<endl;//address of d1 using pointer
    cout<<"The contents of d is: "<<d<<endl;//pointer is pointing to d1
    cout<<endl;//added to break up output

    d=&d2;//sets the pointer to d2 variable
    cout<<"The d2 value is: "<<*d<<endl;//shows value of d2 using pointer
    cout<<"The d2 address is: "<<&d2<<endl;//address of d2 using pointer
    cout<<"The contents of d is now: "<<d<<endl;//pointer is pointing to d2
    cout<<endl;//added to break up output

    d=&d3;//sets the pointer to d3 variable
    cout<<"The d3 value is: "<<*d<<endl;//shows value of d3 using pointer
        cout<<"The d3 address is: "<<&d3<<endl;//address of d3 using pointer
    cout<<"The contents of d is now: "<<d<<endl;//pointer is pointing to d3


    return 0;
}
```