```
/*****************************************************************************
*       Author:                 Jessica Schuler
*       Date Created:           10-19-13
*       Filename:               l4logic.cpp
*
*       Overview:
*       This program tells if a number is prime
*       Input:
*               The user inputs any whole number
*
*       Output:
*              The output will tell if the number is prime or not
*
*****************************************************************************/
#include <iostream>

#define PROMPT "Please enter a whole number"
#define NOT_PRIME "The number is not a prime number. /n"
#define PRIME "The number is a prime number. /n"
#define DONE 0
#define FIRST_FACTOR 3

using std::cout;
using std::cin;
using std::endl; //added endl to using statements

int main ()
{

    int i;
    float number; /*changed this to a float number not char
            to properly round*/

    cout << PROMPT; // prompts user
    cin >> number;  // user input

    for (i=FIRST_FACTOR; i<number; ++i) //took out division
        {
            cout << i << endl;
            cout << number/(float)i << endl;//divides by i

        /*This is new calc for prime number
         * differnet from original to take into
         * account float numbers so to not round*/

        if (((number/(float)i-(int)number/i) == 0.0))
        {
                cout << NOT_PRIME << number;
                return DONE;
            }
        }
    cout << PRIME << number; //it is prime if not divisible

    return 0;
}
```