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// CS 1400 Example Program #5
// Scholarship Calculator
// Determines if a student gets a scholarship
// This program assumes that all input is correct
// -----

using System;

class Program
{
    const double TUITION = 2500.00;

    static void Main()
    {
        double gpa;           // student's grade point average
        double workHours;     // student's work hours
        double income;        // student's monthly income
        char fullTime;        // is student full time
        double amount = 0;

        // Gather the student information necessary to make decision
        Console.WriteLine("Scholarship Calculator.....");
        Console.Write("Is this student going to school full time (y or n): ");
        fullTime = char.Parse(Console.ReadLine( ) );

        Console.Write("What is this student's grade point average? ");
        gpa = double.Parse(Console.ReadLine( ) );

        Console.Write("How many hours a week does this student work? ");
        workHours = double.Parse(Console.ReadLine( ) );

        Console.Write("What is this student's net monthly income? ");
        income = double.Parse(Console.ReadLine( ) );

        // make the decisions necessary to calculate the scholarship
        if ( fullTime == 'y')
        {
            if (gpa >= 4.0)
            {
                amount = TUITION - income;
            }
            else if (gpa >= 3.5)
            {
                amount = 0.75 * (TUITION - income);
            }
            else if (gpa >= 3.0 && workHours <=20)
            {
                amount = 0.50 * (TUITION - income);
            }
        }

        // print results of calculation .. if amount is > 0
        if (amount > 0)
        {
            Console.WriteLine("A scholarship is awarded in the amount of
{0:C}", amount);
        }
    }
}

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        }
        else
        {
            Console.WriteLine("This student does not qualify for a
scholarship.");
        }

        Console.ReadLine( );
    }
}
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