using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

/// <summary>

/// File name: PTangAssignment3/ProjectA/TimeConversion.cs

///

/// Purpose: Create a C# console application where a user can convert time between seconds, minutes,

/// hours and days. Different projects will have different stubs and integration testing.

///

/// Specifics: Project A will have stubs for ModifyInputStub() and GetMultiplierStub()

/// Project B will have a stub for GetMultiplerStub()

/// Project C will have no stubs

/// PTangAssignment3 will have the full program

///

/// Created by Patrick Tang

///

/// History:

/// March 22, 2017 - Created and finished

/// March 23, 2017 - Added comments

/// </summary>

namespace ProjectA

{

public static class TimeConversion

{

/// <summary>

/// The Convert method will be calculating the total of the value with what the user chooses

/// as the units of conversion.

/// </summary>

/// <param name="value">User input value from the console application</param>

/// <param name="convertFrom">User input the unit that they would like to convert from</param>

/// <param name="convertTo">User input the unit that they would like to convert to</param>

/// <returns>Total value</returns>

public static double Convert(double value, string convertFrom, string convertTo)

{

double total = value \* GetMultiplierStub(ModifyInputStub(convertFrom), ModifyInputStub(convertTo));

return total;

}

/// <summary>

/// Stub for ModifyInputStub to ensure it gives the user only minutes as a conversion

/// </summary>

/// <param name="input">Hard coded</param>

/// <returns>"minutes"</returns>

private static string ModifyInputStub(string input)

{

return "minutes";

}

/// <summary>

/// Stub for GetMultiplierStub to ensure it gives the user only 60 as the multiplier

/// </summary>

/// <param name="convertFrom">"minutes"</param>

/// <param name="convertTo">"minutes"</param>

/// <returns>Returns 60 only</returns>

private static double GetMultiplierStub(string convertFrom, string convertTo)

{

return 60;

}

}

}