**Async C# - Lab**

I. Write a function to find the factors of a given positive interger.

* Execute the function with a task on a background thread
* Use a continuation to log the results of the task to the console.

II. Write an async func that accepts a string url as a param and awaits the GetStringAsync function of the httpclient class before printing the contents of the url

* Call the new func in program.cs
* Run the program and verify that it isn’t blocking the main program thread.

III. Create & handle exceptions for the above two programs.

* Check the difference and see the exceptions for task & async.
* Use a loop to check the aggregate exception
* Handle the specific exception in async

1V. Write an async function that accepts a string url as a param and awaits the getAsyncstring func in the httpclient class before printing the contents of the Url.

* Use the overload of the getasyncstring method which takes the cancellationToken as the param & cancels the request after 5 seconds.
* Handle exception thrown as a result of cancellation
* Call your new function in the Program.cs