**.Net Developer – Technical Exercise**

**Candidate: Kathleen West**

Write a ‘Hello World’ program.

* 1. The program has 1 current business requirement – write “Hello World” to the console/screen.

**Completed – Run and see code from Visual Studio Solution**

* 1. The program should have an API that is separated from the program logic to eventually support mobile applications, web applications, or console applications, or windows services.

**Wrote a generic API implemented through class libraries. It is separated from the main program logic. Note: The Console Application is in itself implemented as a separate project interfaced through reference and separated from the main project program flow. I added generic API interfaces for the remaining requests.**

* 1. The program should support future enhancements for writing to a database, console application, etc.
     1. Use common design patterns (inheritance, e.g.) to account for these future concerns. **In my console application I demonstrated an inheritance design pattern to build multiple console applications from one base class.**
     2. Use configuration files or another industry-standard mechanism for determining where to write the information to.

**Database Framework: I included separately the example AdventureWorks + Customer projects that would start a web service and database connectivity to a Customer database (I would reference this project to add entity framework and MVC model view controller aspects into the HelloWorld application in the future).**

Write unit tests to support the API.

**Complete. I did a basic unit test to support the ConsoleApplication (project) API to the Hello\_World project. The results are in the Visual Studio solution as a separate unit test project and a PDF screen capture is included.**