1. Install-Package Microsoft.Extensions.Logging.Log4Net.AspNetCore -Version 3.1.0

2.Create a new file log4net.config paste it in the file

```xml
<?xml version="1.0" encoding="utf-8" ?>
<log4net>
  <appender name="RollingFile" type="log4net.Appender.FileAppender">
    <file value="C:\Temp\app.log" />
    <layout type="log4net.Layout.PatternLayout">
      <conversionPattern value="%-5p %d{hh:mm:ss} %message%newline" />
    </layout>
  </appender>
   <root>
    <level value="ALL" />
    <appender-ref ref="RollingFile" />
  </root>
</log4net>
```

3.In Startup.cs

```csharp
public void Configure(IApplicationBuilder app, IWebHostEnvironment env,ILoggerFactory
loggerFactory)
        {
            .
            .

            loggerFactory.AddLog4Net();

            .

            .

        }
```

4. Program.cs

Modify CreateHostBuilder() to the following

```csharp
        public static IHostBuilder CreateHostBuilder(string[] args) =>
            Host.CreateDefaultBuilder(args)
                .ConfigureWebHostDefaults(webBuilder =>
                {
                    webBuilder.UseStartup<Startup>()
                    .ConfigureLogging((hostingContext, logging) =>
                    {
                        logging.AddLog4Net();
                        logging.SetMinimumLevel(LogLevel.Debug);
                    });
                });
```

5. Check the location given in log.config to cofirm if log has been generated.

6. static readonly log4net.ILog _log4net = log4net.LogManager.GetLogger(typeof(ProductsController));

7. _log4net.Info("Get Product by " +id +" is invoked");