

## Attributes

Sr. No.	Assignment Question
1.	<p>Michigan Computer Corporation, a mid-sized software development company is facing problems in their .NET based healthcare application, HealthLogica. Developers and testers are taking more time than they should take to debug and modify existing C# code. On being enquired about the delays, most of the testers complained that the developers who had written the code had failed to use inline documentation adequately.</p> <p>Michigan Computer Corporation, in order to overcome this problem, has now decided to use attributes to document certain elements of code more efficiently.</p> <p>The design team of HealthLogica has been instructed to use custom attributes in the application. Hence, the task right now is to develop a custom attribute which can be applied to classes, methods, as well as properties used in the application. This custom attribute should allow developers to add descriptive information about the use of the above objects. Assume that you are one of the developers and develop such a custom attribute. Also test it using test data and reflection.</p>
2.	<p>Acel, a financial company is modifying an application that was being used for day-to-day banking operations. The application made use of the <code>add()</code> method for performing addition. The <code>add()</code> method accepted two integer parameters and did not return any value. Now, the company wants to declare the <code>add()</code> method as obsolete and create a new method named <code>Add()</code> that accepts two decimal values as parameters. The new <code>Add()</code> method should also return a decimal value. The user has to perform the following operations:</p> <ol style="list-style-type: none"><li>1. Call both the methods in the <code>Main()</code> method. Build the application. Pay close attention to the messages and warnings that are displayed in the output window. Make note of the observations.</li><li>2. Modify the application so that it displays custom message in the output window when the compiler encounters the <code>add()</code> method that has been marked as obsolete.</li><li>3. Modify the application, so that the <code>add()</code> method should be executed only if the application is being executed in the <code>Debug</code> mode.</li></ol>