```
    public static byte[] ComputeHashSHA512(byte[] toBeHashed)
    {
        using (var sha512 = SHA512.Create())
        {
            return sha512.ComputeHash(toBeHashed);
        }
    }
}
```

Code Listing 5

Like the **MD5** class, you call **Create** on the **SHA1**, **SHA256**, and **SHA512** objects. Next, you call **ComputeHash**, which returns the hash as a byte array. The following screenshot shows the results of the different SHA variants (SHA-1, SHA-256, and SHA-512) being run against two different messages.

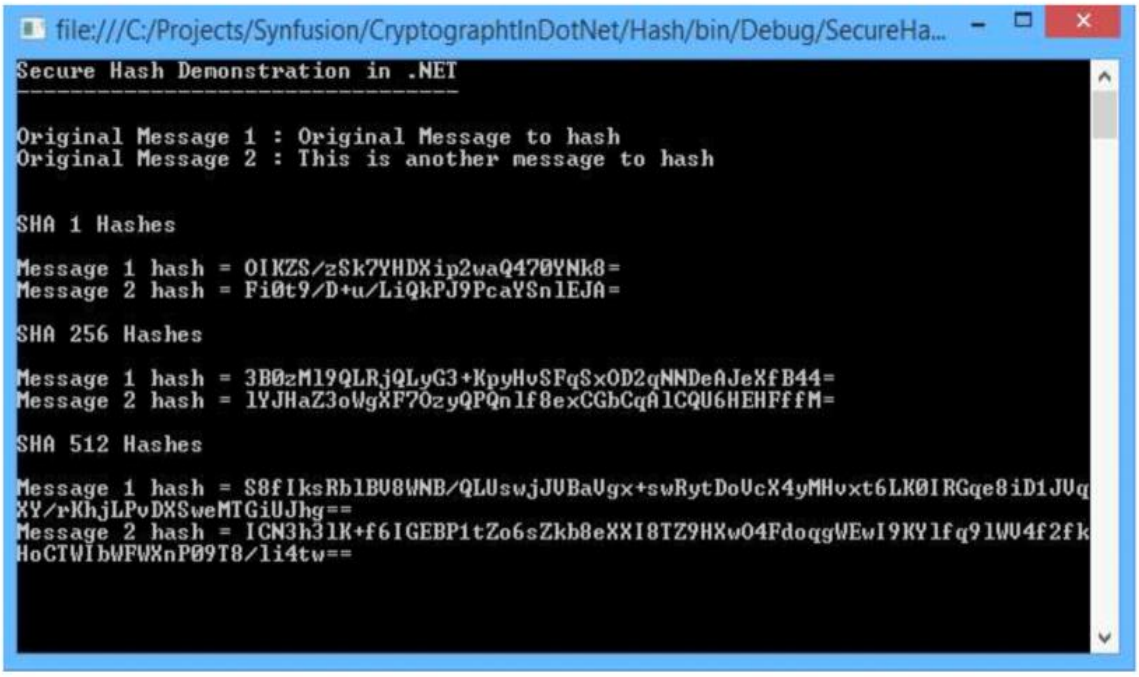

Figure 4: SHA-1, SHA-256, and SHA-512 example

The code for generating the hashes in the preceding example is as follows.

```
class Program
{
    static void Main(string[] args)
    {
        var originalMessage = "Original Message to hash";
        var originalMessage2 = "This is another message to hash";

        Console.WriteLine("Secure Hash Demonstration in .NET");
```