

```

        randomNumberGenerator.GetBytes(randomNumber);

        return randomNumber;
    }
}

```

Code Listing 9

To use the preceding code example to salt and hash a password, we use the following code.

```

class Program
{
    static void Main(string[] args)
    {
        var password = "V3ryC0mpl3xP455w0rd";
        byte[] salt = Hash.GenerateSalt();

        Console.WriteLine("Hash Password with Salt Demonstration in .NET");
        Console.WriteLine("-----");
        Console.WriteLine();
        Console.WriteLine("Original Message 1 : " + password);
        Console.WriteLine("Salt = " + Convert.ToBase64String(salt));
        Console.WriteLine();

        var hashedPassword1 = Hash.HashPasswordWithSalt(
            Encoding.UTF8.GetBytes(password),
            salt);

        Console.WriteLine();
        Console.WriteLine("Hashed Password = " +
            Convert.ToBase64String(hashedPassword1));
        Console.WriteLine();

        Console.ReadLine();
    }
}

```

Code Listing 10

When you run the sample program, you get the following output.