```
1 using System;
 2 using System.Collections.Generic;
 3 using System.Ling;
 4 using System.Text;
 5 using System.Threading.Tasks;
 6 using System.Security.Cryptography;
 8 namespace DAL
 9 {
10
        public class AesCryp
11
            public static string IV = @"Xp2s5v8y5BvDlGcK";// 16 chars = 128 bits
12
13
            public static string Key = @"u7xsArDoF6JaNdRgUkXp2s5v8f2BlEaH"; // 32
              chars = 256 bits
14
15
            public static string encrypt(string decrypted)
16
                AesCryptoServiceProvider aes = new AesCryptoServiceProvider();
17
18
                aes.BlockSize = 128;
19
                aes.KeySize = 256;
20
                aes.IV = Encoding.UTF8.GetBytes(IV);
21
                aes.Key = Encoding.UTF8.GetBytes(Key);
22
                aes.Mode = CipherMode.CBC;
23
                aes.Padding = PaddingMode.PKCS7;
24
25
                // Convert string to byte array
26
                byte[] src = Encoding.Unicode.GetBytes(decrypted);
27
28
                // encryption
29
                using (ICryptoTransform encrypt = aes.CreateEncryptor())
30
                    byte[] dest = encrypt.TransformFinalBlock(src, 0, src.Length);
31
32
33
                    // Convert byte array to Base64 strings
34
                    return Convert.ToBase64String(dest);
                }
35
36
            }
37
            public static string Decrypt(string encrypted)
                AesCryptoServiceProvider aes = new AesCryptoServiceProvider();
                aes.BlockSize = 128;
40
41
                aes.KeySize = 256;
                aes.IV = Encoding.UTF8.GetBytes(IV);
42
43
                aes.Key = Encoding.UTF8.GetBytes(Key);
44
                aes.Mode = CipherMode.CBC;
45
                aes.Padding = PaddingMode.PKCS7;
46
47
                // Convert Base64 strings to byte array
48
                byte[] src = System.Convert.FromBase64String(encrypted);
49
                // decryption
50
51
                using (ICryptoTransform decrypt = aes.CreateDecryptor())
```

58 } 59