﻿using Microsoft.VisualStudio.TestTools.UnitTesting;

using SecurityLibrary.RC4;

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace SecurityPackageTest

{

[TestClass]

public class RC4Test

{

[TestMethod]

public void RC4TestEnc1()

{

RC4 algorithm = new RC4();

string cipher = algorithm.Encrypt("abcd", "test");

Assert.IsTrue(cipher.Equals("ÏíDu"));

}

[TestMethod]

public void RC4TestDec1()

{

RC4 algorithm = new RC4();

string cipher = algorithm.Decrypt("ÏíDu", "test");

Assert.IsTrue(cipher.Equals("abcd"));

}

[TestMethod]

public void RC4TestEnc2()

{

RC4 algorithm = new RC4();

string cipher = algorithm.Encrypt("0x61626364", "0x74657374");

Assert.IsTrue(cipher.Equals("0xcfed4475", StringComparison.InvariantCultureIgnoreCase));

}

[TestMethod]

public void RC4TestDec2()

{

RC4 algorithm = new RC4();

string cipher = algorithm.Decrypt("0xcfed4475", "0x74657374");

Assert.IsTrue(cipher.Equals("0x61626364", StringComparison.InvariantCultureIgnoreCase));

}

[TestMethod]

public void RC4TestNewEnc()

{

RC4 algorithm = new RC4();

string cipher = algorithm.Encrypt("aaaa", "test");

Assert.IsTrue(cipher.Equals("ÏîFp"));

}

[TestMethod]

public void RC4TestNewDec()

{

RC4 algorithm = new RC4();

string cipher = algorithm.Decrypt("ÏîFp", "test");

Assert.IsTrue(cipher.Equals("aaaa"));

}

}

}