**Encryption Junit Test Report**

**testlogin():**

testlogin will have a test user login, then assert Equals will test to ensure that the CheckPass login passes. This means the user in testing can login returning a true and the position of the user in question.

**testloginfail():**

testloginfail will have a test user login, then assert Equals will test to ensure that the CheckPass login fails with improper credentials. This means the user in testing cannot login, this returns a null for both position and login. In this case a Junit pass is a user login failure.

**testnewuser():**

testnewuser is trying to create a new user that already exist in the database that is meant to fail, this returns a false because the system is unable to create the new user with the new permissions.

**Testencryptpass():**

Testencryptpass takes an input of an example password and makes that into a byte array that gets turned into a string and compared against a byte array string provided that we know to be correct. This test uses both encryptPass and byteToString this is intended to compare strings using assertequals.

**Testdecrypt():**

Testdecrypt takes an input of an example encrypted password that gets turned into a byte array and then decrypted into a string and compared against a string provided that we know to be the correct output. This test uses both decrypt and stringToByte this is intended to compare strings using assertequals making sure that it returns the correct pass from the encrypted data.

