

# Black Box Test Plan: Cipher program

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**Introduction:** Each test case below assumes the Cipher program is running and that the instructions for running the program have been displayed for the user. If the test involves an existing file, it is assumed that the file is located in the same directory as the Cipher program.

**Test Files** (List each test file below. Submit each file when you submit your project):

## Test Cases

Test ID	Description	Expected Results	Actual Results
testShiftLessThan1  Author: Dr. Balik	Shift amount: -5	Invalid shift amount User is reprompted to enter shift amount	Invalid shift amount. Please try again.
testShiftGreaterThan25  Author: Dr. Balik	Shift amount: 30	Invalid shift amount User is reprompted to enter shift amount	Invalid shift amount. Please try again.
testShift0  Author: Dr. Balik	Shift amount: 0	Invalid shift amount User is reprompted to enter shift amount	Invalid shift amount. Please try again.
testShift26  Author: Dr. Balik	Shift amount: 26	Invalid shift amount User is reprompted to enter shift amount	Invalid shift amount. Please try again.

Test ID	Description	Expected Results	Actual Results
testShiftNoninteger  Author: Dr. Balik	Shift amount: xxx	Invalid shift amount User is reprompted to enter shift amount	Invalid shift amount. Please try again.
testValidShift3  Author: Dr. Balik	Shift amount: 3	Shift amount is accepted User is prompted for action	Input filename?
testShift25  Author: Dr. Balik	Shift amount: 25	Shift amount is accepted User is prompted for action	Input filename?
testInvalidAction  Author: Dr. Balik	Shift amount: 3 Action: decrypt	Invalid action. User is reprompted to enter action	Invalid action. Please try again.
testQuit  Author: Dr. Balik	Shift amount: 3 Action: q	Program quits.	Program quits.
testEncryptLettersShiftBy1  Author: Dr. Balik	Shift amount: 1 Action: E Input file: Test1.txt Output file: Test1Encrypted.txt	Test1Encrypted.txt is created in the same directory as Cipher program. Test1Encrypted.txt contains exactly the same text as Test1Encrypted_Exp.txt	Test1Encrypted.txt is created in the same directory as Cipher program. Test1Encrypted.txt contains exactly the same text as Test1Encrypted_Exp.txt

Test ID	Description	Expected Results	Actual Results
testDecryptLettersShiftBy1  Author: Dr. Balik	Shift amount: 1 Action: D Input file: Test1Encrypted_Exp.txt Output file: Test1Decrypted.txt	Test1Decrypted.txt is created in the same directory as Cipher program. Test1Decrypted.txt contains exactly the same text as Test1.txt	Test1Decrypted.txt is created in the same directory as Cipher program. Test1Decrypted.txt contains exactly the same text as Test1.txt
w r a p p i n g around En  Author: Yan	Shift amount: 5 Action: E Input file: Test2.txt Output file: Test2Encrypted_Exp.txt	Utu Vzne Ytifd	Utu Vzne Ytifd
w r a p p i n g around De  Author: Yan	Shift amount: 5 Action: D Input file: Test2Encrypted_Exp.txt Output file: Test2.txt	Pop Quiz Today	Pop Quiz Today

Test ID	Description	Expected Results	Actual Results
o t h e r character En  Author: Yan	Shift amount: 5 Action: E Input file: Test3.txt Output file: Test3Encrypted_Exp.txt	Utu Vzne Ytifd!	Utu Vzne Ytifd!
o t h e r character De  Author: Yan	Shift amount: 5 Action: D Input file: Test3Encrypted_Exp.txt Output file: Test3.txt	Pop Quiz Today!	Pop Quiz Today!

Test ID	Description	Expected Results	Actual Results
Multiple Lines En  Author: Yan	Shift amount: 1 Action: E Input file: Test4.txt Output file: Test4Encrypted_Exp.txt	BCDEF bcdef	BCDEF bcdef
Multiple Lines De  Author: Yan	Shift amount: 1 Action: D Input file: Test4Encrypted_Exp.txt Output file: Test4.txt	ABCDE abced	ABCDE abced

Test ID	Description	Expected Results	Actual Results
Multiple Lines wrapping En Author: Yan	Shift amount: 5 Action: E Input file: Test5.txt Output file: Test5Encrypted_Exp.txt	Utu Vzne Ytifd Utu Vzne Ytifd	Utu Vzne Ytifd Utu Vzne Stiffed
Multiple Lines wrapping DE Author: Yan	Shift amount: 5 Action: D Input file: Test5Encrypted_Exp.txt Output file: Test5.txt	Pop Quiz Today Pop Quiz Today	Pop Quiz Today Pop Quiz Today
testEncryptLargeFileShiftBy 3  Author: Dr. King	Shift amount: 3 Action: e Input file: Caesar.txt Output file: CaesarEncrypted.txt	CaesarEncrypted.txt is created in the same directory as Cipher program.  CaesarEncrypted.txt contains exactly the same text as CaesarEncrypted_Exp.txt	

Test ID	Description	Expected Results	Actual Results
testDecryptLargeFileShiftBy3  Author: Dr. Balik	Shift amount: 3 Action: d Input file: CaesarEncrypted_Exp.txt Output file: CaesarDecrypted.txt	CaesarDecrypted.txt is created in the same directory as Cipher program.  CaesarDecrypted.txt contains exactly the same text as Caesar.txt	