

# System Test Plan for SecretMessage

The text in bold in the **Description** column represents the test inputs to the program. You can stop program execution by pressing Ctrl+C. You will need to fill in your Actual Results and write the four additional tests (highlighted in **yellow**).

Test ID	Description	Expected Results	Actual Results
Test Invalid Option (J) (EC, R) Author: Dr. Schmidt	<i>Preconditions:</i> SecretMessage program started  Do you want to (E)ncrypt or (D)ecrypt message? <b>J</b> Enter message: <b>Hello</b>	Invalid option.	Invalid option
Test Encrypt - Message containing only letters with length of five (EC, R) Author: Dr. Schmidt	<i>Preconditions:</i> SecretMessage program started  Do you want to (E)ncrypt or (D)ecrypt message? <b>e</b> Enter message: <b>Hello</b>	Hlloe	Hlloe
Test Decrypt - Message containing only letters with length of five (EC, R) Author: Dr. Schmidt	<i>Preconditions:</i> SecretMessage program started  Do you want to (E)ncrypt or (D)ecrypt message? <b>decrypt</b> Enter message: <b>Hlloe</b>	Hello	Hello
Test Encrypt - Message containing only letters with length of two (EC, R, B) Author: Dr. Schmidt	<i>Preconditions:</i> SecretMessage program started  Do you want to (E)ncrypt or (D)ecrypt message? <b>E</b> Enter message: <b>Hi</b>	Hi	Hi

Test ID	Description	Expected Results	Actual Results
Test Decrypt - Message containing only letters with length of two (EC, R, B) Author: Bryson Brading	<i>Preconditions:</i> SecretMessage program started  Do you want to (E)ncrypt or (D)ecrypt message? <b>D</b> Enter message: <b>Hi</b>	Hi	Hi
Test Encrypt- Message containing only letters with length of six (EC, R) Author: Benjamin Uy	<i>Preconditions:</i> SecretMessage program started  Do you want to (E)ncrypt or (D)ecrypt message? <b>E</b> Enter message: <b>Wordle</b>	dWleor	dWleor
Test Decrypt - Message containing only letters with length of six (EC, R) Author: Benjamin Uy	<i>Preconditions:</i> SecretMessage program started  Do you want to (E)ncrypt or (D)ecrypt message? <b>D</b> Enter message: <b>dWleor</b>	Wordle	Wordle
Test Encrypt - Message containing first character digit with length of four (EC, R) Author: Bryson Brading	<i>Preconditions:</i> SecretMessage program started  Do you want to (E)ncrypt or (D)ecrypt message? <b>E</b> Enter message: <b>5Hey</b>	yH5e	yH5e
Test Decrypt - Message containing first character digit with length of four (EC, R)	<i>Preconditions:</i> SecretMessage program started  Do you want to (E)ncrypt or (D)ecrypt message? <b>D</b> Enter message: <b>yH5e</b>	5Hey	5Hey

## Notes

Message: Hello

1. **Swap characters** First and last characters are letters, swap first and last characters: oe1lH
2. **Move character** oe1Hl
3. **Swap substrings** Length is odd and not divisible by three, leave middle character and swap substrings before and after: H1loe

Therefore, the encrypted version of Hello is H1loe.