CMSC203 Java Assignments / Projects (example of the project submission)

Part1: Documentation Example

Class: CMSC203 CRN 21456
Program: Assignment # 3
Instructor: Dr. Ahmed Tarek
Summary of Description: This is a project used to encrypt and decrypt messages. You interface with this project using a GUI.
Due Date: 10/11/2021
Integrity Pledge: I pledge that I have completed the programming assignment independently. I have not copied the code from a student or any source.

Pseudo Code:

String in Bounds (Static Boolean Method)

Receives string
Loops through string's characters

Compares characters to the range of upper and lower bounds If character is in bounds return true

else return false End Loop

Encrypt Caesar (Static string method)

String in Bounds (String Text); Loop through string

Get each character value Add the number 1
Get new character values

End Loop Return String

Decrypt Caesar (Static string method)

String in Bounds (String Text); Loop through string

Get each character value

Subtract the number 1

Get decrypted character values End Loop

Return String

Encrypt Bellaso (Static String Method)

String in Bounds (String Text); Loop through string

Get each character value Replace with ASCII value Get encrypted string

End Loop Return String

Decrypt Bellaso (Static String Method)

String in Bounds (String Text); Loop through string

Get each ASCII value Replace with character value Get decrypted string

End Loop Return String

Comprehensive Test Plan

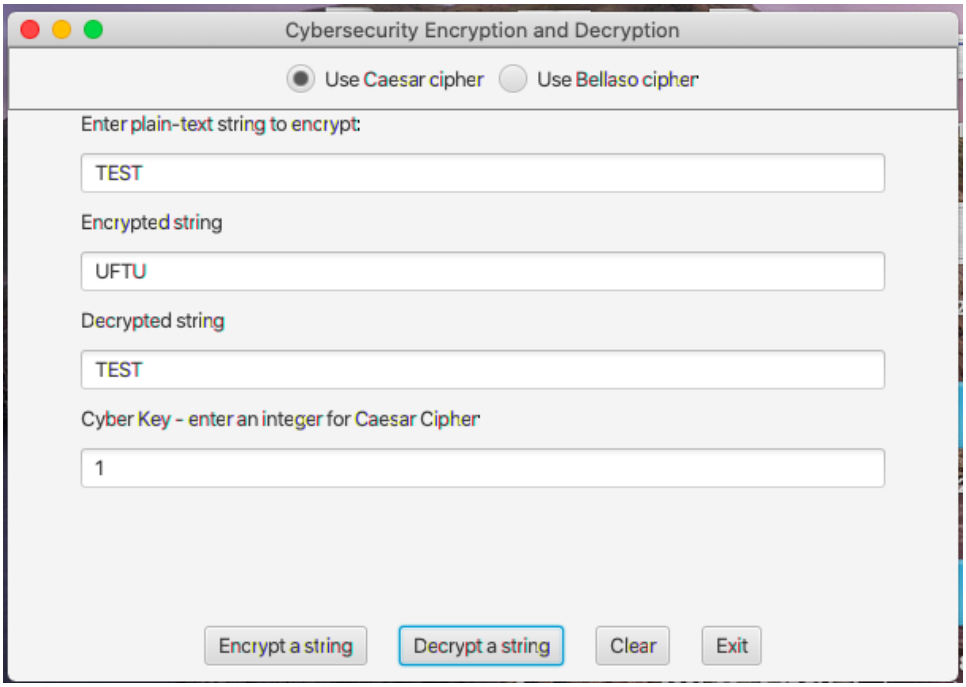
A good test plan should be comprehensive. This means you should have a few test cases that test when the input is in and out of range, division by 0, incorrect Data type, etc.(Provide valid and invalid input)

Input text	Input Key	Encrypted Caesar Method	Encrypted Bellaso	Decrypt Caesar	Decrypt Bellaso
Test	1	UFTU		TEST	
TESTBEST	SUM		'Z 'WR&)		TESTBEST
TESTING ANOTHER STRING	999	;,:;05.G(56;/,9G:;905.		No Return	

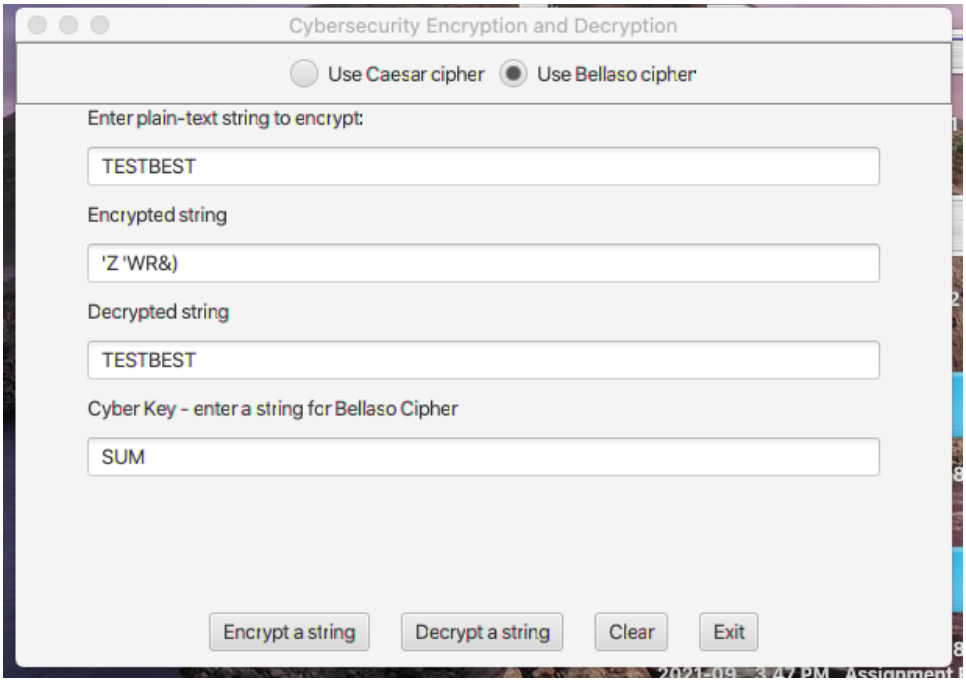
1234	BE		3759		

Screenshots for each case listed in the Test Plan

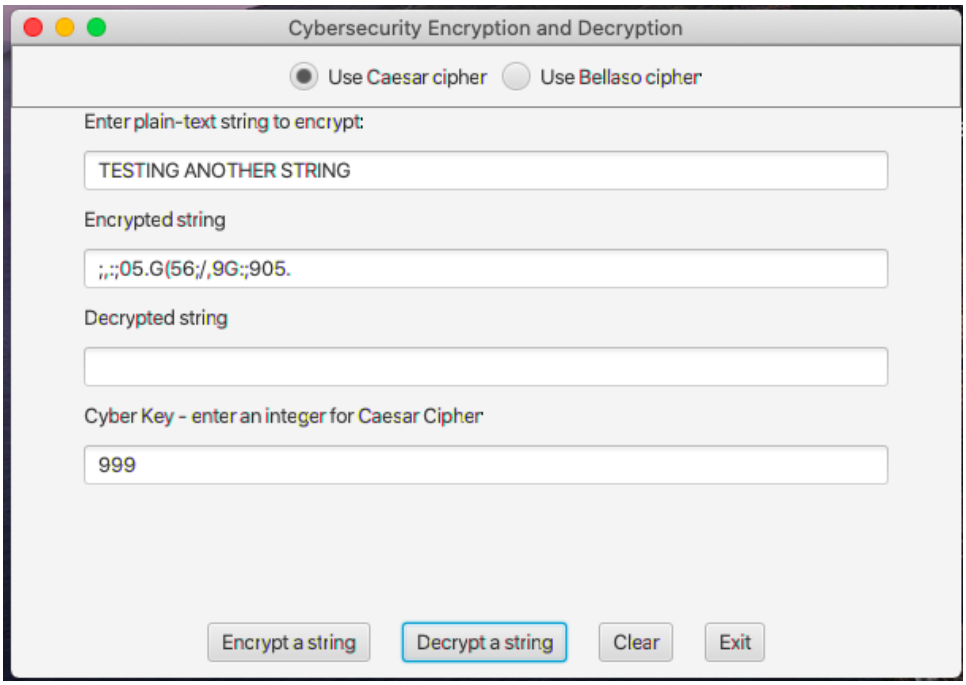
Case 1:



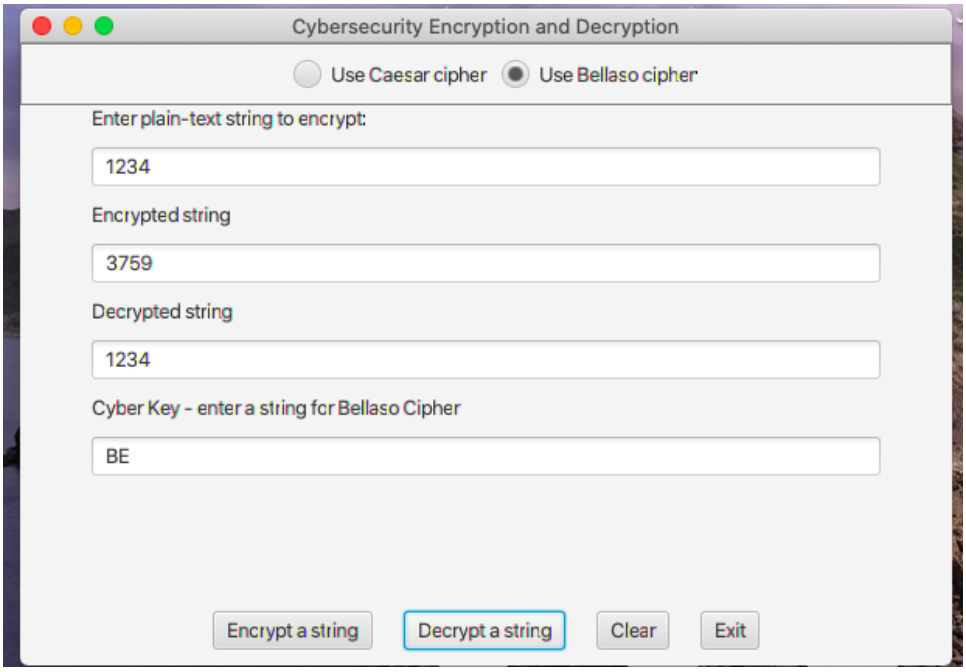
Case 2:



Case 3:



Case 4:



Lessons Learned:

Write about your Learning Experience, highlighting your lessons learned and learning experience from working on this project.
What have you learned?

I've learned a lot about flexibility in programming. I used while loops inside of for loops for two of the methods. I learned how flags can save you a lot of tie when programming.
What did you struggle with?
I struggled with the unit tests. The decrypt caesar didn't pass and I still don't know why.
What would you do differently on your next project?
I'd probably start earlier.
What parts of this assignment were you successful with, and what parts (if any) were you not successful with?
I was able to get the GUI up, encrypt and decrypt bellaso/caesar texts, and I was able to get 4 out of 5 tests to pass.
Provide any additional resources/links/videos you used to while working on this assignment/project.

<Provide answers to the questions listed above>

Check List:

#		Y/N	Comments
1.	**Assignment files:**		
	• FirstInitialLastName_ Assignment#_Moss.zip	**Yes or No**	
	• FirstInitialLastName_Assignment#.docx/.pdf	**Yes or No**	
	• Source java files	**Yes or No**	
2.	**Program compiles**	**Yes or No**	
3.	**Program runs with desired outputs related to a Test Plan**	**Yes or No**	
4.	**Documentation file:**		
	• Comprehensive Test Plan	**Yes or No**	
	• Screenshots for each Test case listed in the Test Plan	**Yes or No**	
	• Screenshots of your GitHub account with submitted Assignment# (if required)	**Yes or No or N/A**	
	• UML Diagram (if required)	**Yes or No or N/A**	
	• Algorithms/Pseudocode (if required)	**Yes or No or N/A**	
	• Flowchart (if required)	**Yes or No or N/A**	
	• Lessons Learned	**Yes or No**	
	• Checklist is completed and included in the Documentation	**Yes or No**	