













Introduction to the Course

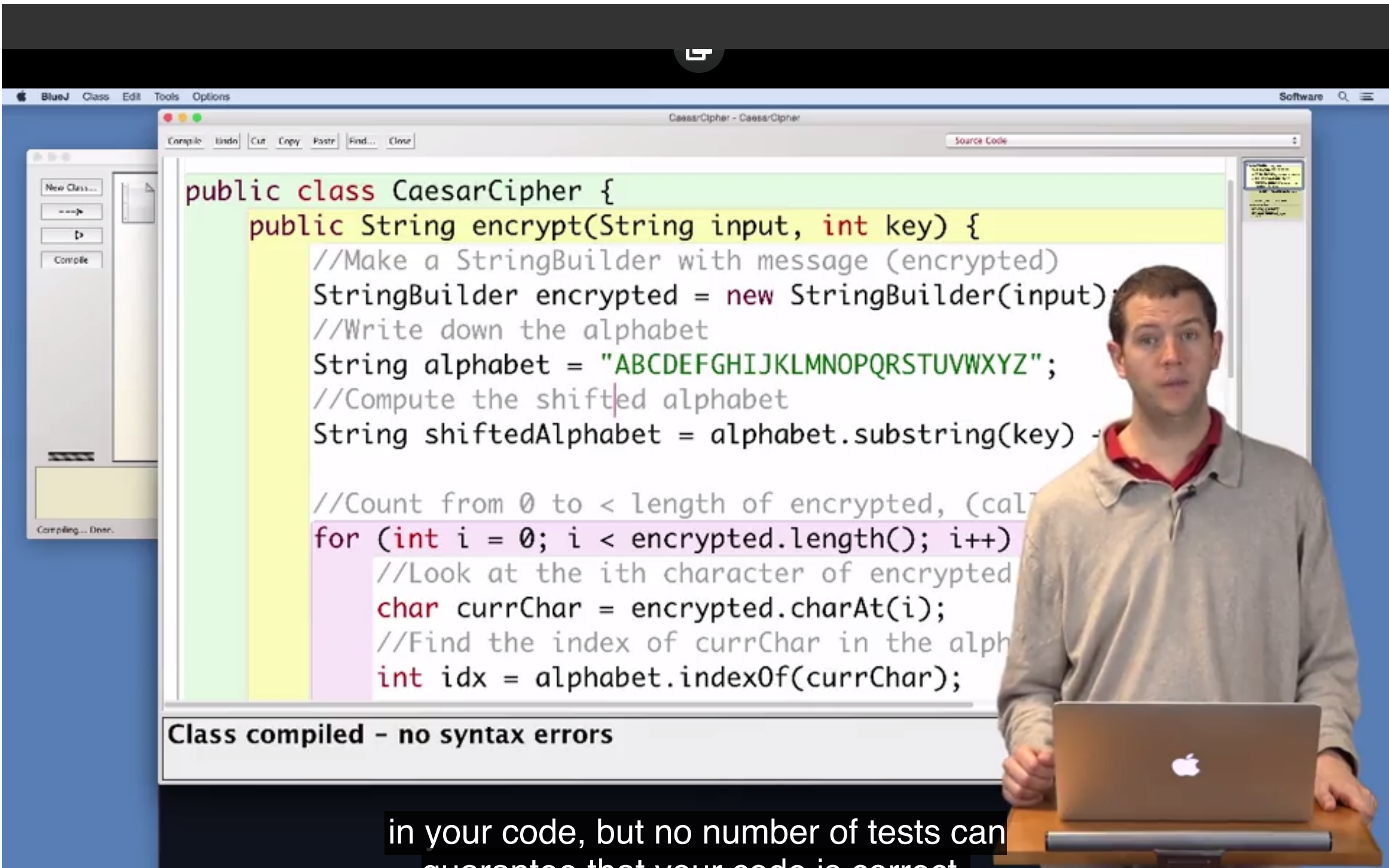
Implementing the Caesar Cipher

	Module Learning Outcomes / Resources	10 min
	A Brief History of Cryptography	5 min
	Introduction	5 min
	Creating and Manipulating Strings	5 min
	Counting Loops	9 min
	Character Class	5 min
	Developing an Algorithm	5 min
	Translating into Code	4 min
	Testing and Debugging	1 min
	Summary	40 sec
	Programming Exercise: Implementing the Caesar Cipher	10 min
	Practice Quiz: Implementing the Caesar Cipher	6 questions

Breaking the Caesar Cipher

Object Oriented Caesar Cipher

Review



in your code, but no number of tests can guarantee that your code is correct.

Testing and Debugging

Have a question? Discuss this lecture in the week forums. >

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0:03
Now, we've written and tested our CaesarCipher class. We tested it out on one message and it looked like it worked. Does this mean we can be sure our code is correct? Of course not. Remember, when you're testing software each test case makes you more confident [in your code, but no number of tests can guarantee that your code is correct.](#) You want more and more tests to be more and more confident and one test case generally isn't enough.

0:30
So, here I have a different method. Dear Owen, no matter what you may have heard, thee's no cake in the conference room. The cake is a lie. Please keep working on Coursera videos. So I wanna encrypt this, and send an encrypted message to Owen. To fend him off from the cake in case he intercepted my message to Robert.

0:50
I'm going to use my test Caesar. And now I'm going to do message2.txt. And when I look to at this, I'm going to see that the D in dear turned into a U. That's good. But then e, a, and r were left the same. Then the O in Owen turned into an F. But then w, e, n were all left the same. And in fact, most of this is unchanged.

1:16
So my code isn't quite right. If I look back at it, I'm gonna see that it's only going to work with capital letters and not with lower case letters. This was the problem in our first test case. It only had capital letters. It didn't have lower case letters, so we didn't really test all the cases enough. We're gonna leave this to you to fix. There are a couple of different ways you can do it, and we hope you can figure one of them out. So good luck, and happy fixing of your code.

Downloads

Lecture Video	mp4
Subtitles (English)	WebVTT
Transcript (English)	txt

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