

You are allowed to use your textbook and your computer including the Internet, but you may not communicate with another person in any way.

Use your last name as the project name. ALL your files must be inside the project directory, and the whole directory (zipped) must be emailed to me at gitte@elbek.com when you are done. Please stay logged on until I send you a confirmation email that I have received the file.

Create a single solution with two separate forms, one for each of the questions below. Use properly named variables and include comments if you want a good grade!

1. Make a Windows form like the one below, which shows the flag for one of 8 European countries and the words for "Hello, how are you?" in the country's language.
 - a. Put the data below into two arrays to keep track of the information – this is not a database application. (The information is also in a text file Languages.txt on the shared drive, so you can cut and paste – careful, I put a bug in the code, but it will still save you time)

Language	Phrase	Flag file
Danish	Hej, hvordan har du det?	DanishFlag.jpg
Dutch	Hello hoe u bent?	DutchFlag.jpg
French	Bonjour comment allez vous ?	FrenchFlag.jpg
German	Hallo, wie geht es Ihnen?	GermanFlag.jpg
Italian	Ciao come siete?	ItalianFlag.jpg
Spanish	¿Hola cómo es usted?	SpanishFlag.jpg

- b. When you click on a language in the listbox, then the flag and the phrase should change to be appropriate for that language.



- c. Make a context menu for the form which will make the flag and phrase invisible.

d. Make another context menu for the flag which will allow you to bring up the second form, which is described below. (If you are having trouble with this, write the second form to be executed separately.)

2. Make a Windows form application as illustrated below.

- a. The number should change every 500 milliseconds to a randomly generated number between 1 and 10.
- b. The label near the top displays the square of the random number.
- c. The bar near the bottom represents the values 0 to 100. Every time the random value changes, make a bar that represents the square of this new value. It is your choice which method you want to use for this minor graph – there are several ways that it can be done.

