

Modify the application FlagQuiz developed in Lab8 to take into account the following functionalities:

1. Add a menu item to the application menu bar called “Number of choices”. When the user selects this item, the application displays an activity for the user to choose the number of possible choices for each question (he can specify 3, 6 or 9 choices of which 3 is the default value). The choice problem can be solved by displaying an AlertDialog instead of a new activity. Apply the following method on the AlertDialog.Builder object created:

```
setSingleChoiceItems (CharSequence[] items, int checkedItem,  
DialogInterface.OnClickListener listener)
```

2. Add a second item to the menu bar called “Regions” to allow the user to select the continent of the flags (Europe, Asia, Africa, America). In this case, the following method on the object creates AlertDialog.Builder allows to select several choices:

```
setMultiChoiceItems (CharSequence[] items, boolean[] checkedItems,  
DialogInterface.OnMultiChoiceClickListener listener)
```

Create the layout file to display the application in landscape orientation or on tablets in which the application settings will be displayed on the left and the quiz on the right.

For example, if the user selects 6 multiple choices and the regions Europe and Asia, the following information is displayed on the left of the quiz:

Number of Choices: 6

Regions : Europe Asia