**Practice Questions 1**

**Recording a Macro, the Object Model, Variables**

**Recording a Macro**

1. Open the workbook “Q1.xlsx”. Record a macro to apply the following to cell C4 which is the first input cell:
   1. Validation (so that you can only input a whole number between 0 and 10)
   2. Protection (unlock the cell for editing)
   3. Formatting (give the cell a yellow background)

Stop recording your macro and edit your macro to remove all the superfluous code.

Test the streamlined macro out to check that it works on the other two input cells. Save the macro-enabled file as “A1.xlsm”

**Writing a Macro**

1. Open the workbook “Q2.xlsx. Write the macro that does the following:
   1. Select the top of the list (cell C7) absolutely
   2. From this cell, move down to the bottom of the block regardless of how many tasks there are (Hint: Try *activecell.end(xldown)* . Look in help for instructions)
   3. From this cell, go right to the last column in the block (again regardless of how many columns there are) (Hint: Try *activecell.end(xltoright).* Look in help for instructions*)*
   4. When you run your macro, it should leave the bottom right cell (E17) shown above selected.

Save the macro enabled file as “A2.xlsm”

**Variables**

1. Create a new Excel file called “A3.xlsm”. Write a subroutine that does the following:
   1. Launch an input box that asks for a name
   2. Launch an input box that asks for the age
   3. Launch an input box that asks for favourite comic book character
   4. Launches a message box saying “ Thank you [Insert Name], It is always nice to know of [Insert Age] year olds that are interested in [Insert Comic book character].

Save the macro enabled file as “A3.xlsm”

**Absolute and Relative References**

1. Open the file “Q4.xlsx”. Do the following
   1. Add a button called “Add a period” at the bottom of the sheet. Use Developer->Controls->Insert->Button
   2. The button should launch a macro that adds a period at the end of the data. So if the last period in the data is 6, it should add a 7. (Hint: Use a mix of absolute and relative references. Also record a macro first and then edit it)
   3. The bottom row of the column with the new period should display the total as for the other columns.

Save the file as A4.xlsm