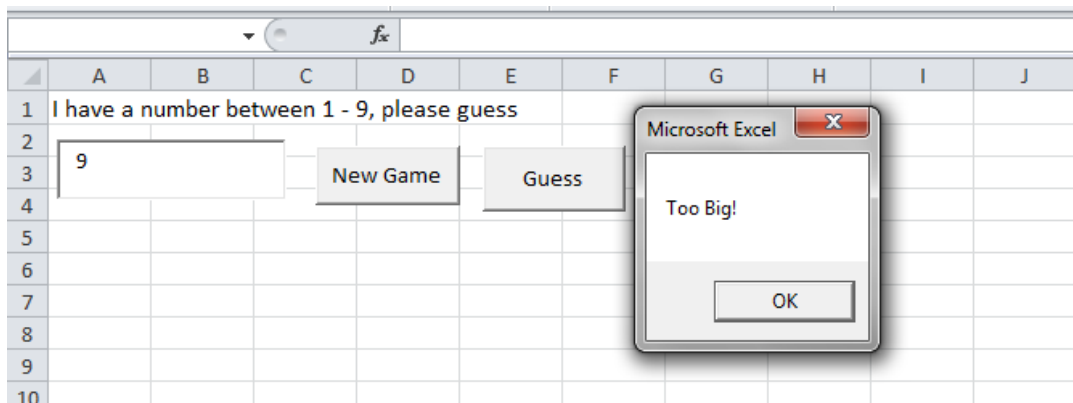
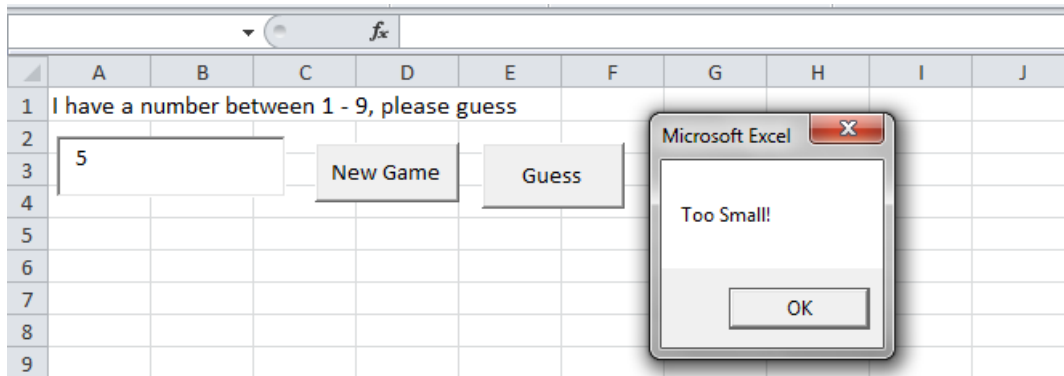


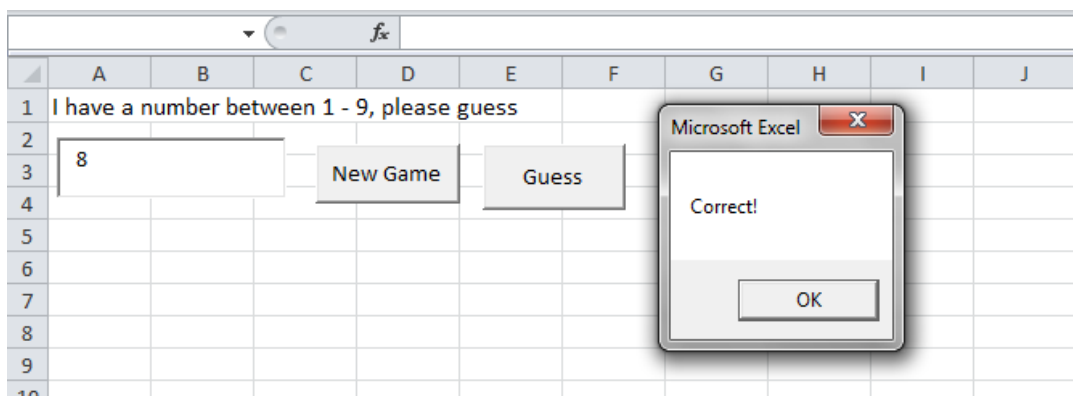
Exercise 7

Download the files from <http://www.Peter-Lo.com/Teaching/AMA-Excel/Source7.zip>, you will use these files to finish the following exercises.

1. You are required to create the simple Guess Number game. Once user press the **[New Game]** button, the program should pick a secret number (1 – 9) and let the user guess what number it is. User is only allowed to input number in the text field.
 - A) Once the user input a number in the text box and press the **[Guess]** button, the program will perform the checking. If the number is too large or too smaller, the program should provide a hint.



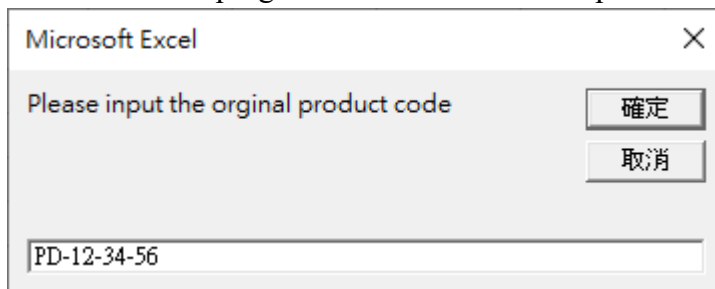
- B) If the guess number is correct, the program should congratulate the user.



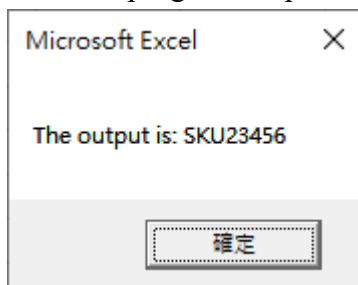
2. By using looping technique, create a 10x10 checkerboard of cells (in red and black) starting from the currently selected cell

	A	B	C	D	E	F	G	H	I	J	K
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											

3. Suppose you had a product code **PD-12-34-56**. You're told to remove all the hyphens and turn the letters PD in to SKU. Your finished work should become **SKU123456**.
By using the **InputBox**, **MsgBox** and **Replace** function, develop a program to perform the above task. The program should ask user to input the original product code.



Then the program output the converted product code in dialog box.



4. Open the Excel file “Question 7-4.xlsx”, develop a program to concatenate the Last Name and First Name to Full name. The expected answer should look like:

First Name	Last Name	Full Name
Abercrombie	Kim	Abercrombie Kim
Ackerman	John	Ackerman John
Ajenstat		Ajenstat
	Kim	Kim
Ellery	Helks	Ellery Helks
Bobine	Nalder	Bobine Nalder
Annnora	Seely	Annnora Seely
Dulcine	Pardy	Dulcine Pardy
Bacon Jr.	Dan K.	Bacon Jr. Dan K.
Bankert	Julie	Bankert Julie

5. Open the Excel file “Question 7-5.xlsx”,
 A) Develop a user-defined function BMI for computing the Body Mass Index according to the formula.

$$\text{Body Mass Index} = \text{Weight in kilograms} / (\text{Height in meters})^2.$$

- B) Find out the Meaning for the BMI index from the table sheet.

	A	B	C
1	Gender:	Male	
2	Height:	1.7 m	
3	Weight:	50 Kg	
4	BMI:	17.30	
5	Meaning:	Underweight	
6			

6. Develop a program to read the csv file “Question 7-6.csv” into Excel worksheet. The expected output should look like:

	A	B	C
1	Student	Mark	
2	Amy	10	
3	Ken	90	
4	John	30	
5	Mary	70	
6	David	40	
7			

7. Excel doesn't have a spell check as it has in Word or PowerPoint. While you can run the spell check by hitting the [F7] key, there is no visual cue when there is a spelling mistake. Develop a program to instantly highlight all the cells that have a spelling mistake in it

	A	B	C	D
1	ID	Last Name	First Name	Date of Hire
2	1	Abercrombie	Kim	24-Jun-1985
3	2	Ackerman	Pilar	26-Apr-1989
4	3	Ajenstat	François	01-Feb-1981
5	4	Akers	Kim	29-May-1979
6	5	Alberts	Amy E.	15-Oct-1989
7	6	Alderson	Gregory F. (Greg)	12-Jan-1992
8	7	Alexander	Sean P	06-Jul-2000