Exercise 4

Download the files from http://www.Peter-Lo.com/Teaching/AMA-Excel/Source4.zip, you will use these files to finish the following exercises.

1. Open the Excel file "Question 4-1.xlsx". This spreadsheet contains the cost per gallon for olive oil. You are required to develop a formula for total cost calculation using function IF according to the provided logic.

Cost/Gallon
•
\$23
\$20
501
11520

- 2. Open the Excel file "Question 4-2.xlsx". Create a nested **IF** formula to calculate the final salary for each footballer:
 - If the footballer receives more than 30 yellow cards, then the fine is 10% of his salary
 - If the footballer receives 10 30 yellow cards, then the fine is 2% of his salary
 - If the footballer receives less than 10 yellow cards, no penalty will be taken.

	• • • • • • • • • • • • • • • • • • • •				
Footballer	Salary	Yellow Cards	Red Cards	Final Salary	
Wayne Rooney	85,000	8	0	85,000	
Robin van Persie	87,500	4	0	87,500	
Lionel Messi	92,300	18	2	90,454	
Cristiano Ronaldo	98,600	25	6	96,628	
Fernando Torres	74,500	7	0	74,500	
Gareth Bale	38,000	3	0	38,000	
David Silva	46,400	5	1	46,400	
Frank Lampard	64,500	14	2	63,210	
Carlos Tevez	78,300	58	19	70,470	
Didier Drogba	66,350	12	2	65,023	

3. Open the Excel file "Question 4-3.xlsx". By using **AND** function, check whether the input value (Column C) is between minimum value (Column A) and Maximum value (Column B).

	Α	В	С	D
1	Minimum Value	Maximum Value	Input Value	Within Range?
2	10	14	50	FALSE
3	32	45	38	TRUE
4	12	44	85	FALSE
5	43	98	54	TRUE
6				

4. Open the Excel file "Question 4-4.xlsx", calculate the total turnover for each province.

Province	Turnover
Guangdong	411,500
Fujian	525,900
Hubei	234,000

- 5. Open the Excel file "Question 4-5.xlsx". This spreadsheet contains a list of furniture items.
 - A) Create a drop-down menu in the green cell that allows user select the product code.

	Wise Owl Fu	rnishings		Enquiry System	
Code	Item	Price	In Stock		
K16	Stool	£21.00	7	Code: C39	r
A17	Lamp	£32.99	8	Ite A17	
A18	Bookcase	£112.50	40	Pr. A18	
A34	Armchair	£89.99	5	Number in Std C39	
C39	Sofa	£312.00	80	D80	
D80	Dining Table	£199.99	12	F26 B45	
F26	Shelves	£45.00	9	G36	
B45	Kitchen	£231.00	34		_
G36	Rocking Chair	£87.99	13		

B) Enter formulae in the yellow cells so that whenever you enter a product code in the green cell you see the product details beneath.

	Wise Owl Fu	rnishings		Enquiry	System	
Code	Item	Price	In Stock			
K16	Stool	£21.00	7	Code:	C39	~
A17	Lamp	£32.99	8	Item:	Sofa	
A18	Bookcase	£112.50	40	Price:	£312.00	
A34	Armchair	£89.99	5	Number in Stock:	80	
C39	Sofa	£312.00	80			
D80	Dining Table	£199.99	12			
F26	Shelves	£45.00	9			
B45	Kitchen	£231.00	34			
G36	Rocking Chair	£87.99	13			

6. Open the Excel file "Question 4-6.xlsx". Enter a formula in the yellow cell so that it shows the corresponding name for input student ID in the green cell. Prompt for message "**Not in this class**" if the student ID not found.

ID	Name	ID	Name
96200745	David Cheung	96200745	David Cheung
96114424	Patrick Pang	96114424	Patrick Pang
96101242	Simon Lee	96101242	Simon Lee
96484247	May Leung	96484247	May Leung
96012149	Paul Chan	96012149	Paul Chan
96427732	Chris Wong	96427732	Chris Wong
ID:	96114424	ID:	1234
Name:	Patrick Pang	Name:	Not in this class

- 7. Open the Excel file "Question 4-7.xlsx" which contain the time record for a marathon competition.
 - A) Calculate the total time need for each runner.

Name	Sex	Start Time	Complete Time	Total Time
Amy	F	9:00:00	11:39:04	2 hr 39 min 04 sec
David	M	9:00:10	11:45:54	2 hr 45 min 44 sec
James	M	9:01:42	11:55:34	2 hr 53 min 52 sec
June	F	9:00:00	11:52:50	2 hr 52 min 50 sec
Ken	M	9:00:48	11:35:24	2 hr 34 min 36 sec
Mary	F	9:03:00	11:42:08	2 hr 39 min 08 sec
Paul	M	9:00:36	11:58:54	2 hr 58 min 18 sec
Sam	M	9:02:00	11:38:42	2 hr 36 min 42 sec
Susan	F	9:01:00	11:44:41	2 hr 43 min 41 sec
Yuki	F	9:02:00	11:50:08	2 hr 48 min 08 sec

B) Find out the champion, first runner-up, and second runner-up for the competition.

	Name	Sex	Time
Champion:	Ken	M	2 hr 34 min 36 sec
First Runner-up:	Sam	M	2 hr 36 min 42 sec
Second Runner-up:	Amy	F	2 hr 39 min 04 sec

8. Open the Excel file "Question 4-8.xlsx", find the maximum score for each region.

4	A	В	С	D	E
1	Region	Score		Region	Highest Score
2	North	75%		North	75%
3	South	85%		South	85%
4	East	65%		East	95%
5	West	55%		West	55%
б	North	70%			
7	South	80%			
8	East	90%			
9	West	50%			
10	North	60%			
11	South	85%			
12	East	95%			
13	West	45%			