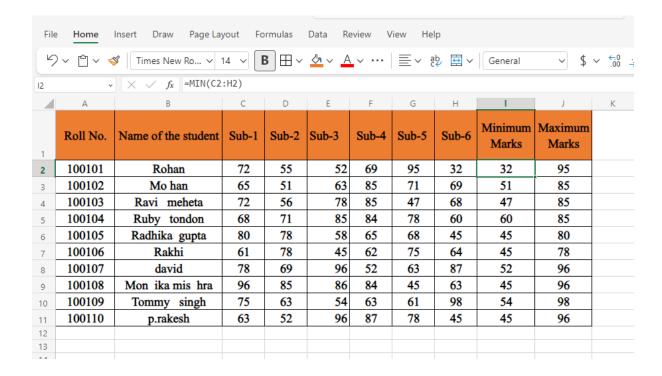# ADVANCE EXCEL ASSIGNMENT 11

Use the below table for the following Questions.

Roll No.	Name of the student	Sub-1	Sub-2	Sub-3	Sub-4	Sub-5	Sub-6
100101	Rohan	72	55	52	69	95	32
100102	Mo han	65	51	63	85	71	69
100103	Ravi meheta	72	56	78	85	47	68
100104	Ruby tondon	68	71	85	84	78	60
100105	Radhika gupta	80	78	58	65	68	45
100106	Rakhi	61	78	45	62	75	64
100107	david	78	69	96	52	63	87
100108	mon ika mis hra	96	85	86	84	45	63
100109	Tommy singh	75	63	54	63	61	98
100110	p.rakesh	63	52	96	87	78	45

1. **Find the Minimum Marks and Maximum marks scored by each student.**
   Minimum mark for each student is found by the formula:
   =MIN(C2:H2)

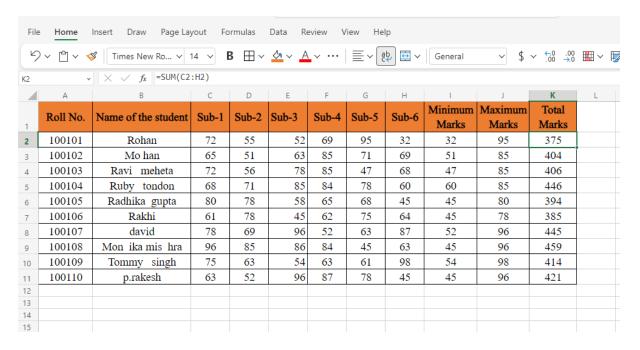Maximum mark for each student is found by the formula:
=MAX(C2:H2)

	A	B	C	D	E	F	G	H	I	J	K
1	Roll No.	Name of the student	Sub-1	Sub-2	Sub-3	Sub-4	Sub-5	Sub-6	Minimum Marks	Maximum Marks	
2	100101	Rohan	72	55	52	69	95	32	32	95	
3	100102	Mo han	65	51	63	85	71	69	51	85	
4	100103	Ravi meheta	72	56	78	85	47	68	47	85	
5	100104	Ruby tondon	68	71	85	84	78	60	60	85	
6	100105	Radhika gupta	80	78	58	65	68	45	45	80	
7	100106	Rakhi	61	78	45	62	75	64	45	78	
8	100107	david	78	69	96	52	63	87	52	96	
9	100108	Mon ika mis hra	96	85	86	84	45	63	45	96	
10	100109	Tommy singh	75	63	54	63	61	98	54	98	
11	100110	p.rakesh	63	52	96	87	78	45	45	96	
12											
13											
14											

2. **Calculate the totals for each student; use conditional formatting to highlight the top students who have scored more than 480.**
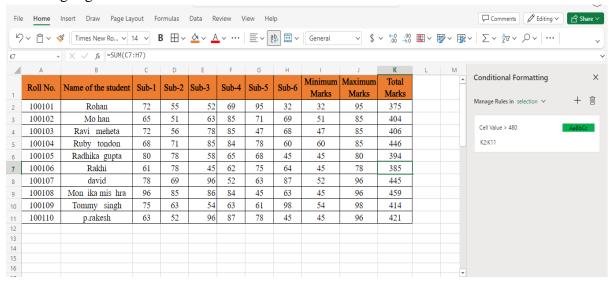
Total mark for each student is calculated using the formula:
=SUM(C2:H2)

	A	B	C	D	E	F	G	H	I	J	K	L
1	Roll No.	Name of the student	Sub-1	Sub-2	Sub-3	Sub-4	Sub-5	Sub-6	Minimum Marks	Maximum Marks	Total Marks	
2	100101	Rohan	72	55	52	69	95	32	32	95	375	
3	100102	Mo han	65	51	63	85	71	69	51	85	404	
4	100103	Ravi meheta	72	56	78	85	47	68	47	85	406	
5	100104	Ruby tondon	68	71	85	84	78	60	60	85	446	
6	100105	Radhika gupta	80	78	58	65	68	45	45	80	394	
7	100106	Rakhi	61	78	45	62	75	64	45	78	385	
8	100107	david	78	69	96	52	63	87	52	96	445	
9	100108	Mon ika mis hra	96	85	86	84	45	63	45	96	459	
10	100109	Tommy singh	75	63	54	63	61	98	54	98	414	
11	100110	p.rakesh	63	52	96	87	78	45	45	96	421	
12												
13												
14												
15												

The conditional formatting is done by selecting the "Conditional Formatting option → Highlight Cell Rule → Greater than " and giving the rule as Cell value > 480 with green colour.

But, as you can see in the table, none of the student scored more than 480. Therefore no cell is highlighted.
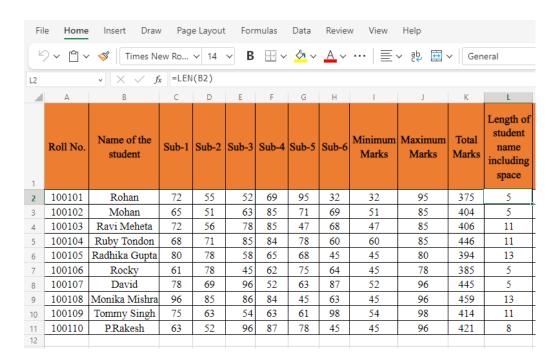

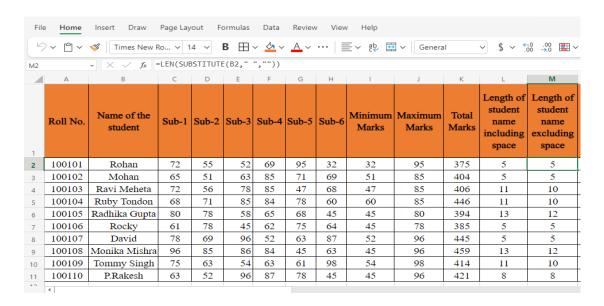3. **Calculate the length of the names of each student.**

   Before calculating the length of the student's name, spacing issues is resolved and its solution is given under the question no.6 below.

   To calculate the length of student's name, there are two options:

   a. Calculate length of name including space
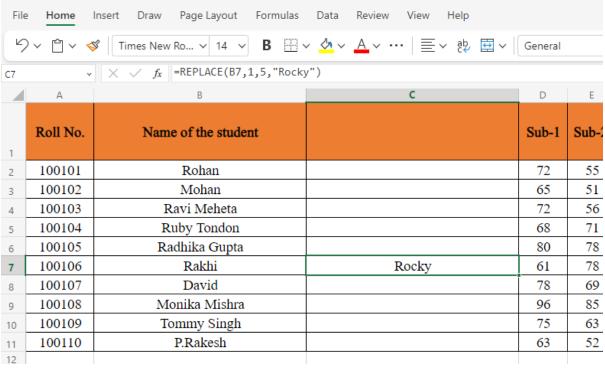   Formula used: =LEN(B2)

b. Calculate length of name excluding space
Formula used: =LEN(SUBSTITUTE(B2," ",""))

Roll No.	Name of the student	Sub-1	Sub-2	Sub-3	Sub-4	Sub-5	Sub-6	Minimum Marks	Maximum Marks	Total Marks	Length of student name including space	Length of student name excluding space
100101	Rohan	72	55	52	69	95	32	32	95	375	5	5
100102	Mohan	65	51	63	85	71	69	51	85	404	5	5
100103	Ravi Meheta	72	56	78	85	47	68	47	85	406	11	10
100104	Ruby Tondon	68	71	85	84	78	60	60	85	446	11	10
100105	Radhika Gupta	80	78	58	65	68	45	45	80	394	13	12
100106	Rocky	61	78	45	62	75	64	45	78	385	5	5
100107	David	78	69	96	52	63	87	52	96	445	5	5
100108	Monika Mishra	96	85	86	84	45	63	45	96	459	13	12
100109	Tommy Singh	75	63	54	63	61	98	54	98	414	11	10
100110	P.Rakesh	63	52	96	87	78	45	45	96	421	8	8

4. Replace the Name Rakhi with Rocky. Use Formulas.

Formula to replace the name:
=REPLACE(B7,1,5,"Rocky")

Roll No.	Name of the student		Sub-1	Sub-2
100101	Rohan		72	55
100102	Mohan		65	51
100103	Ravi Meheta		72	56
100104	Ruby Tondon		68	71
100105	Radhika Gupta		80	78
100106	Rakhi	Rocky	61	78
100107	David		78	69
100108	Monika Mishra		96	85
100109	Tommy Singh		75	63
100110	P.Rakesh		63	52

The formula was applied on another cell as shown in above figure and copy-pasted it to the original cell B7 using the Paste Values option.

5. **Combine the Roll Numbers and Names. Use formulas. The end result should look like below. 100101Rohan**
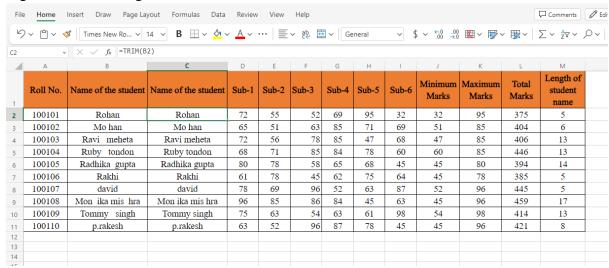
The formula used to combine Roll No. and Name is:

=CONCAT(A2:B2)

6. **As you can see that some names have spacing issues. Use Formulas to correct that spacing. Also ensure that the names and surnames start with a capital letter.**

The additional space between the words can be trimmed by using TRIM function as follows: =TRIM(B2).

It gives the following result:

As you can see, the additional spaces between the words are deleted in Column C. But, there is some spacing issues in two names Mohan(C3) and Monika Mishra(C9). It is because of the single space in their name which cannot be trimmed by TRIM function.

In order to solve the issue in cell C3(Mo han) we can use SUBSTITUTE function as follows:

=SUBSTITUTE(C3," ","")

The result is:

To solve the issue in cell C9(Mon ika mis hra), either we can use SUBSTITUTE function twice for the space between "Mon ika" and "mis hra" or we can use TRIM and SUBSTITUTE function in the original data given "Mon   ika mis   hra". The second method can be used since there is a double space between each word in the name and single space between the two words. Second method will be the easiest one. It can be used on the original data as:

=TRIM(SUBSTITUTE(B9," ",""))

The result is:

Now, to capitalize first letter of each word the name use PROPER function as:

=PROPER(C2)

The result is:

Formula bar: `=TRIM(SUBSTITUTE(B9," ",""))`

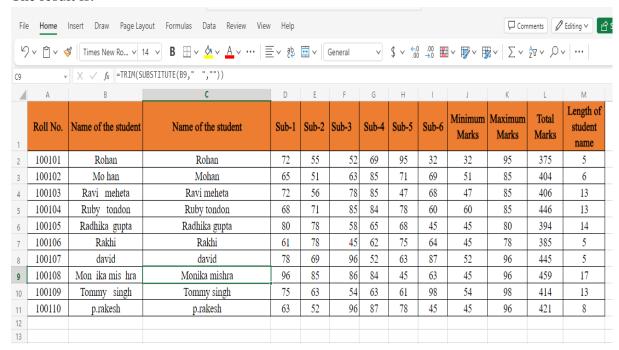| Roll No.	Name of the student	Name of the student	Sub-1	Sub-2	Sub-3	Sub-4	Sub-5	Sub-6	Minimum Marks	Maximum Marks	Total Marks	Length of student name
100101	Rohan	Rohan	72	55	52	69	95	32	32	95	375	5
100102	Mo han	Mohan	65	51	63	85	71	69	51	85	404	6
100103	Ravi meheta	Ravi meheta	72	56	78	85	47	68	47	85	406	13
100104	Ruby tondon	Ruby tondon	68	71	85	84	78	60	60	85	446	13
100105	Radhika gupta	Radhika gupta	80	78	58	65	68	45	45	80	394	14
100106	Rakhi	Rakhi	61	78	45	62	75	64	45	78	385	5
100107	david	david	78	69	96	52	63	87	52	96	445	5
100108	Mon ika mis hra	Monika mishra	96	85	86	84	45	63	45	96	459	17
100109	Tommy singh	Tommy singh	75	63	54	63	61	98	54	98	414	13
100110	p.rakesh	p.rakesh	63	52	96	87	78	45	45	96	421	8

After copying and pasting the corrected names to the original column, the final table obtained is:

Roll No.	Name of the student	Sub-1	Sub-2	Sub-3	Sub-4	Sub-5	Sub-6	Minimum Marks	Maximum Marks	Total Marks	Length of student name including space	Length of student name excluding space	Concatenation of Roll No. and Name
100101	Rohan	72	55	52	69	95	32	32	95	375	5	5	100101Rohan
100102	Mohan	65	51	63	85	71	69	51	85	404	5	5	100102Mohan
100103	Ravi Meheta	72	56	78	85	47	68	47	85	406	11	10	100103Ravi Meheta
100104	Ruby Tondon	68	71	85	84	78	60	60	85	446	11	10	100104Ruby Tondon
100105	Radhika Gupta	80	78	58	65	68	45	45	80	394	13	12	100105Radhika Gupta
100106	Rocky	61	78	45	62	75	64	45	78	385	5	5	100106Rocky
100107	David	78	69	96	52	63	87	52	96	445	5	5	100107David
100108	Monika Mishra	96	85	86	84	45	63	45	96	459	13	12	100108Monika Mishra
100109	Tommy Singh	75	63	54	63	61	98	54	98	414	11	10	100109Tommy Singh
100110	P.Rakesh	63	52	96	87	78	45	45	96	421	8	8	100110P.Rakesh