

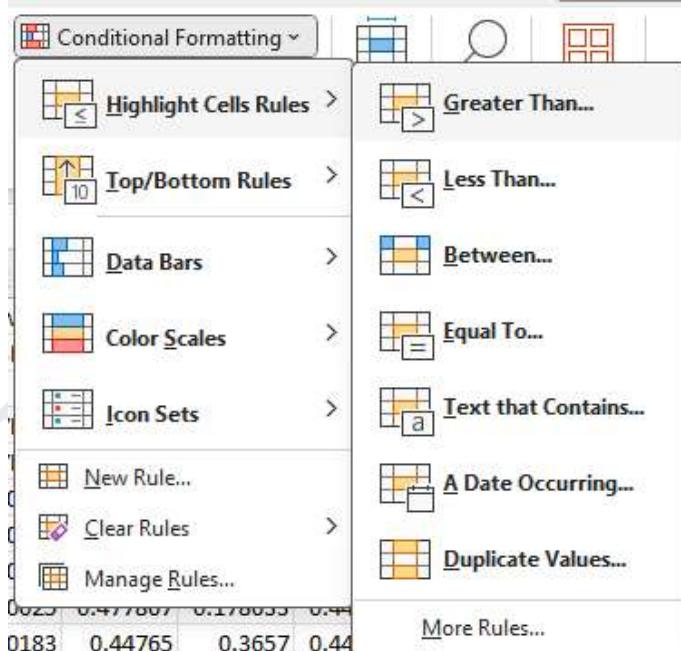
Practical No.1

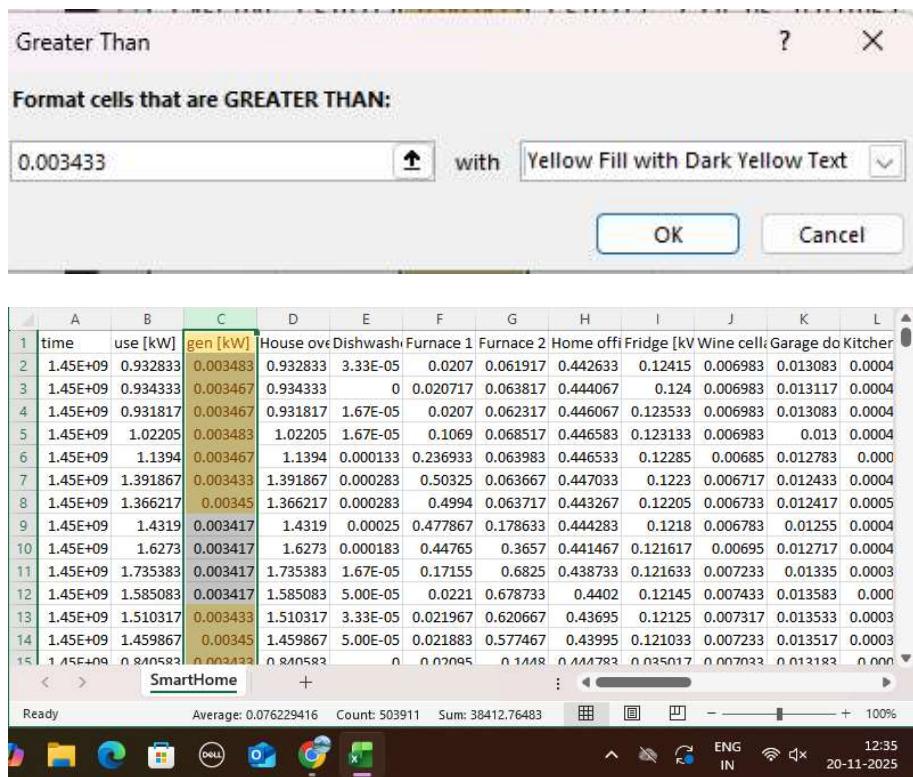
Aim: Introduction to Excel

- Perform conditional formatting on a dataset using various criteria.
 - Create a pivot table to analyze and summarize data.
 - Use the VLOOKUP function to retrieve information from a different worksheet or table.
 - Perform what-if analysis using Goal Seek to determine input values for desired output.

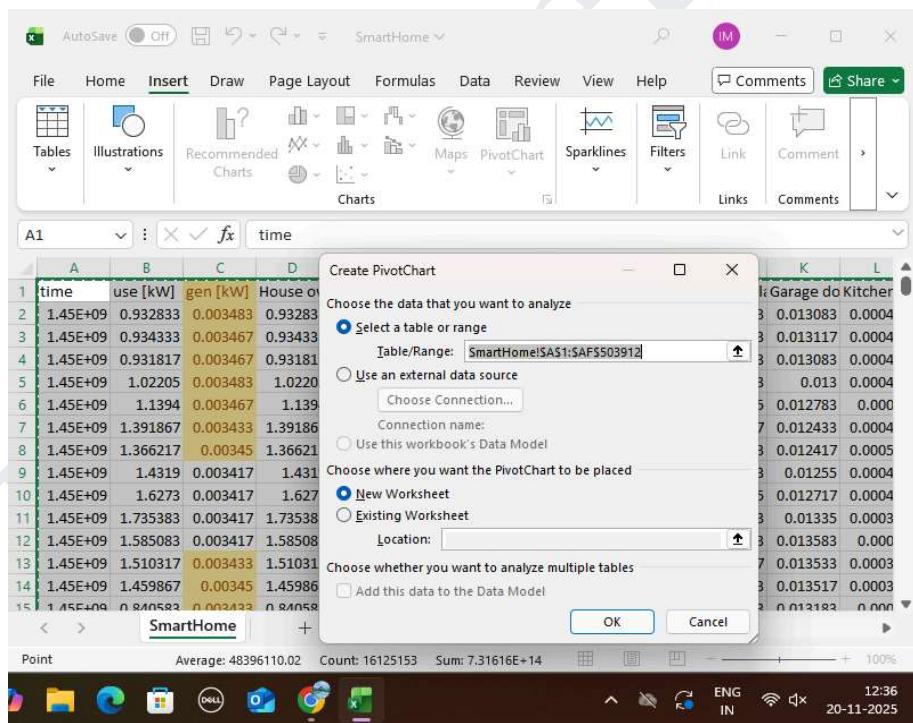
A. Perform conditional formatting on a dataset using various criteria.

C1													
A	B	C	D	E	F	G	H	I	J	K	L	M	
1	time	use [kW]	gen [kW]	House ovk	Dishwash	Furnace 1	Furnace 2	Home offi	Fridge [kV	Wine cell	Garage do	Kitcher	
2	1.45E+09	0.932833	0.003483	0.932833	3.33E-05	0.0207	0.061917	0.442633	0.12415	0.006983	0.013083	0.0004	
3	1.45E+09	0.934333	0.003467	0.934333	0	0.020717	0.063817	0.444067	0.124	0.006983	0.013117	0.0004	
4	1.45E+09	0.931817	0.003467	0.931817	1.67E-05	0.0207	0.062317	0.446067	0.123533	0.006983	0.013083	0.0004	
5	1.45E+09	1.02205	0.003483	1.02205	1.67E-05	0.1069	0.068517	0.446583	0.123133	0.006983	0.013	0.0004	
6	1.45E+09	1.1394	0.003467	1.1394	0.000133	0.236933	0.063983	0.446533	0.12285	0.00685	0.012783	0.000	
7	1.45E+09	1.391867	0.003433	1.391867	0.000283	0.50325	0.063667	0.447033	0.1223	0.006717	0.012433	0.0004	
8	1.45E+09	1.366217	0.00345	1.366217	0.000283	0.4994	0.063717	0.443267	0.12205	0.006733	0.012417	0.0005	
9	1.45E+09	1.4319	0.003417	1.4319	0.00025	0.477867	0.178633	0.444283	0.12118	0.006783	0.01255	0.0004	
10	1.45E+09	1.6273	0.003417	1.6273	0.000183	0.44765	0.3657	0.441467	0.121617	0.00695	0.012717	0.0004	
11	1.45E+09	1.735383	0.003417	1.735383	1.67E-05	0.17155	0.6825	0.438733	0.121633	0.007233	0.01335	0.0003	
12	1.45E+09	1.585083	0.003417	1.585083	5.00E-05	0.0221	0.678733	0.4402	0.12145	0.007433	0.013583	0.000	
13	1.45E+09	1.510317	0.003433	1.510317	3.33E-05	0.021967	0.620667	0.43695	0.12125	0.007317	0.013533	0.0003	
14	1.45E+09	1.459867	0.00425	1.459867	5.00E-05	0.021883	0.577467	0.43995	0.121033	0.007233	0.013517	0.0003	

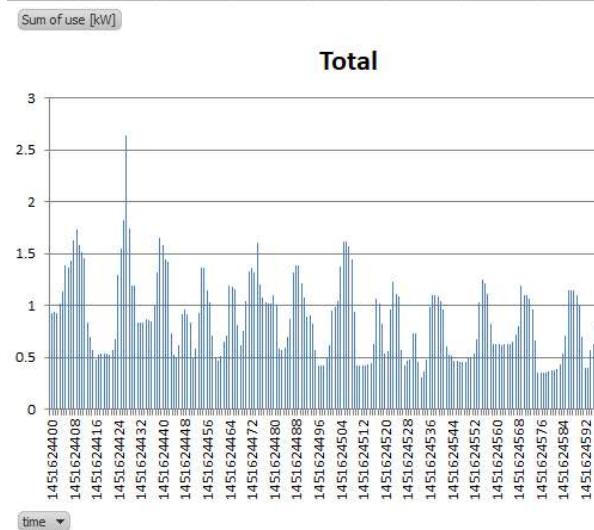
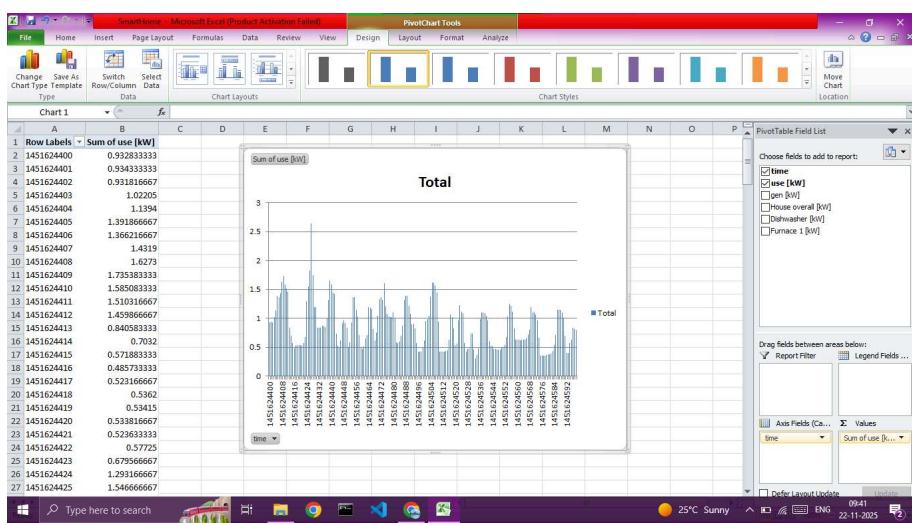




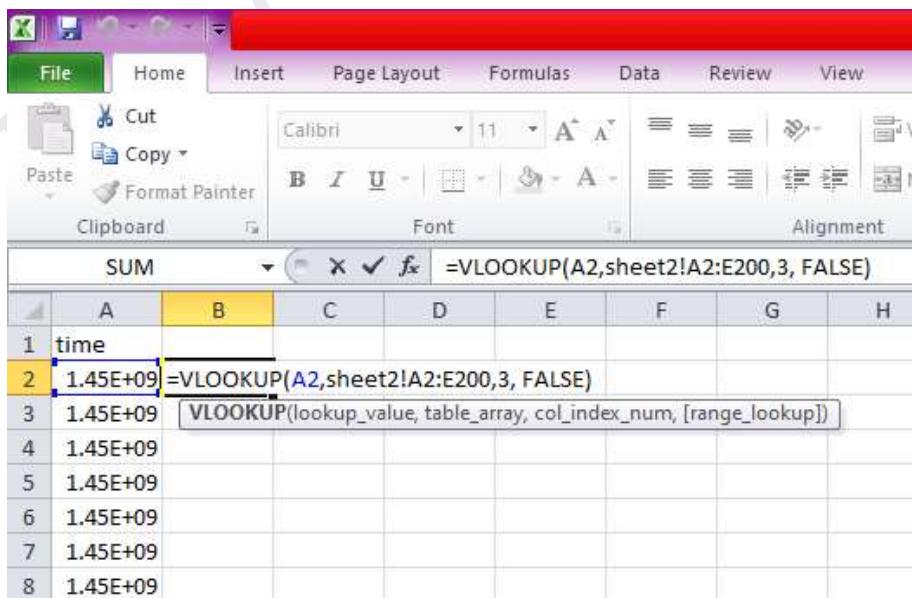
B. Create a pivot table to analyze and summarize data.



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C. Use the VLOOKUP function to retrieve information from a different worksheet or table.



	B3		
1	A	B	C
2	time		
3	1.45E+09	0.003483	
4	1.45E+09		
5	1.45E+09		
6	1.45E+09		
7	1.45E+09		
8	1.45E+09		
9	1.45E+09		

D. Perform what-if analysis using Goal Seek to determine input values for desired output.

The screenshot shows two instances of Microsoft Excel. The top instance displays a 'Goal Seek' dialog box over a spreadsheet. The dialog box has the following settings:

- Set cell: B2
- To value: 1
- By changing cell: A2

The bottom instance shows the result of the goal seek operation. The spreadsheet now contains the following data:

	B5		
1	A	B	C
2		0	
3			
4			
5		0.013083	
6			
7			
8			
9			
10			

A 'Goal Seek Status' dialog box is also visible, stating: "Goal Seeking with Cell B2 found a solution." It shows the target value is 1 and the current value is 1. There are 'Step' and 'Pause' buttons, and 'OK' and 'Cancel' buttons.