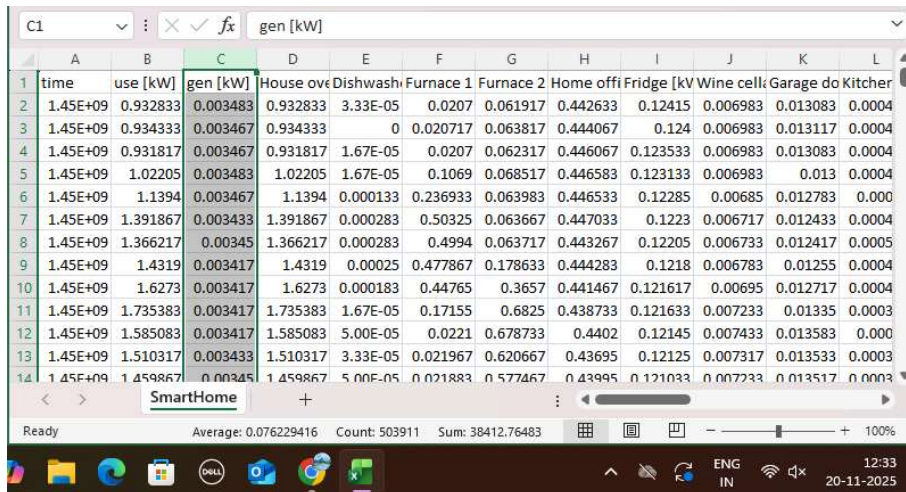


Practical No.1

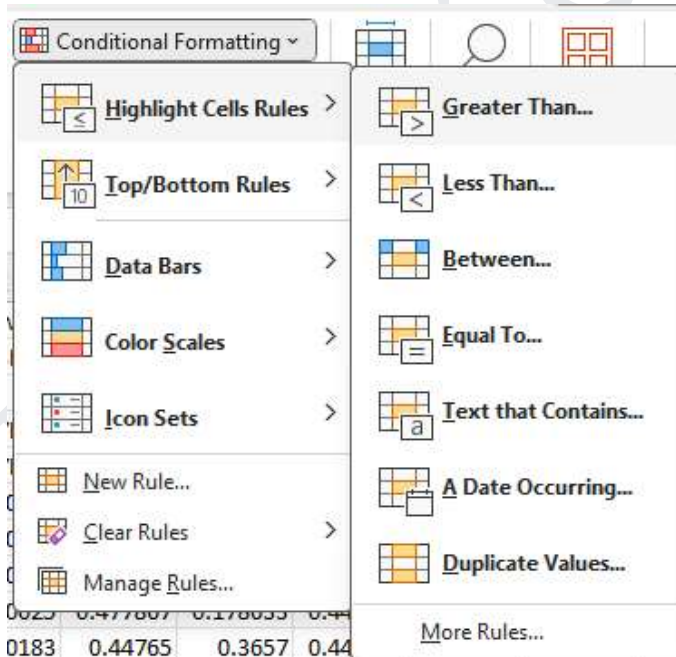
Aim: Introduction to Excel

- 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.



	A	B	C	D	E	F	G	H	I	J	K	L
1	time	use [kW]	gen [kW]	House ove	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	0.1218	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	0.00345	1.459867	5.00E-05	0.021883	0.577467	0.43995	0.121033	0.007233	0.013517	0.0003

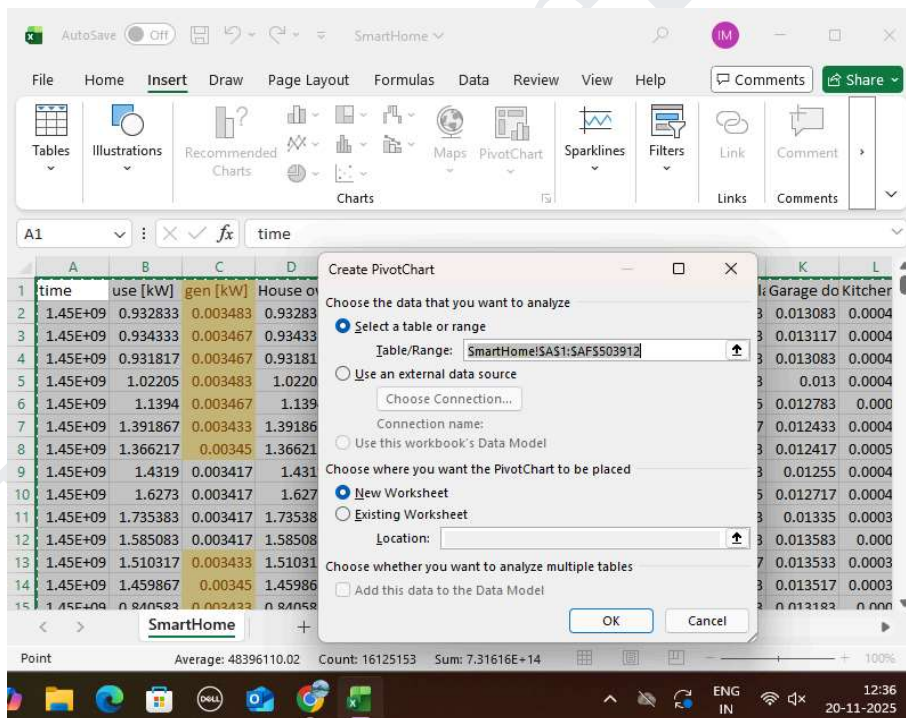




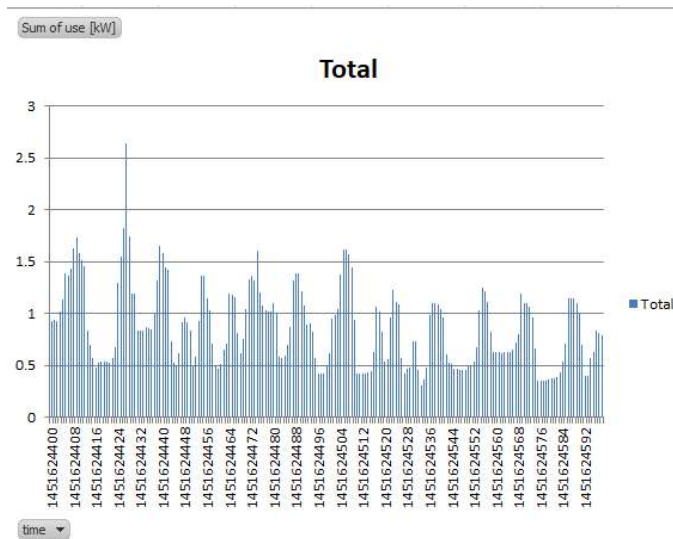
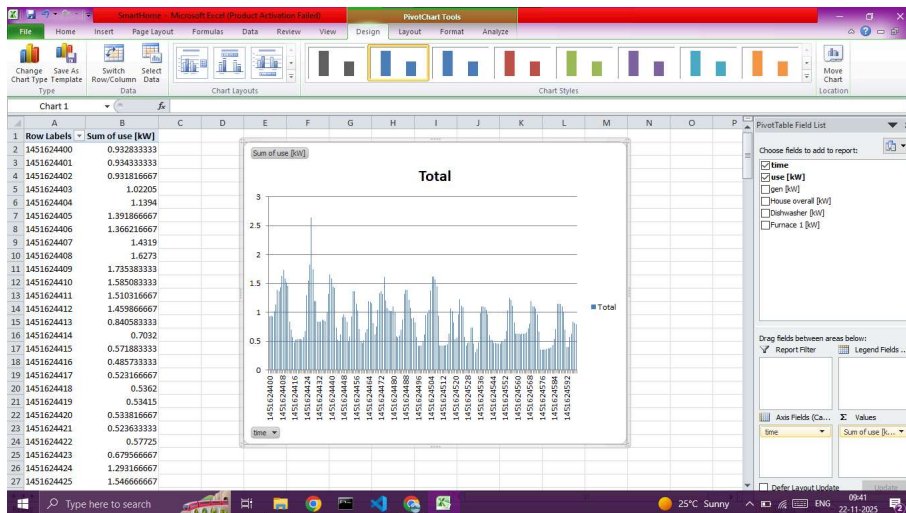
	A	B	C	D	E	F	G	H	I	J	K	L
1	time	use [kW]	gen [kW]	House ovr	Dishwash	Furnace 1	Furnace 2	Home offi	Fridge [kW]	Wine cell	Garage do	Kitcher
2	1.45E+09	0.932833	0.003483	0.932833	3.33E-05	0.0207	0.061917	0.442633	0.12415	0.006983	0.013083	0.0004
3	1.45E+09	0.934333	0.003467	0.934333	0	0.020717	0.063817	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	0.1218	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	0.00345	1.459867	5.00E-05	0.021883	0.577467	0.43995	0.121033	0.007233	0.013517	0.0003
15	1.45E+09	0.840583	0.003433	0.840583	0	0.02095	0.1448	0.444783	0.035017	0.007033	0.013183	0.000

Ready Average: 0.076229416 Count: 503911 Sum: 38412.76483

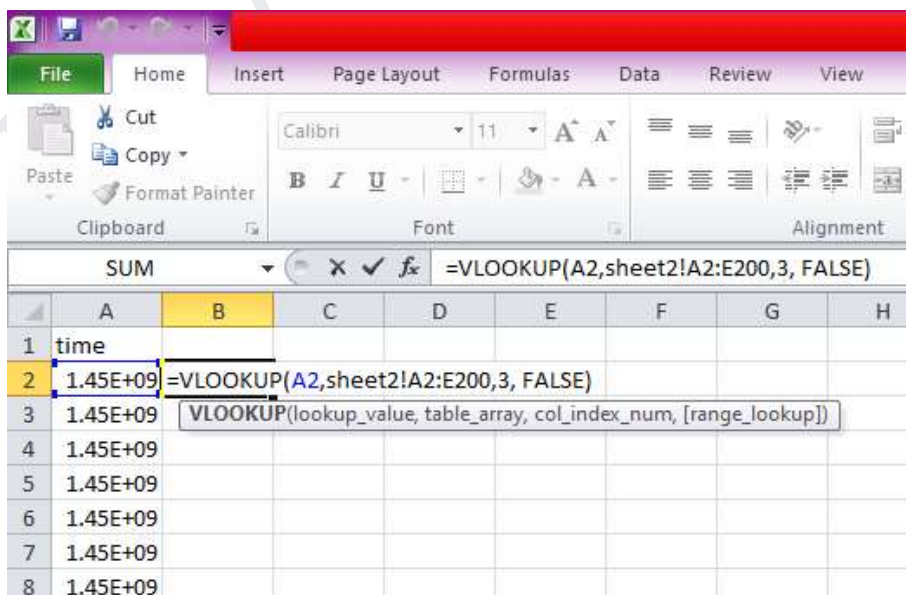
B. Create a pivot table to analyze and summarize data.



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



	A	B	C	D
1	time			
2	1.45E+09	0.003483		
3	1.45E+09			
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 image shows two screenshots of an Excel spreadsheet illustrating the Goal Seek process. In the first screenshot, the 'Goal Seek' dialog box is open. The 'Set cell' is B2, the 'To value' is 1, and the 'By changing cell' is A2. The spreadsheet shows cell B2 containing 0 and cell B5 containing 0.013083. In the second screenshot, the 'Goal Seek Status' dialog box is open, indicating that a solution was found. It shows the target value is 1 and the current value is 1. The spreadsheet now shows cell A2 containing 1 and cell B2 containing 1.

Goal Seek Dialog Box:

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

Goal Seek Status Dialog Box:

- Goal Seeking with Cell B2 found a solution.
- Target value: 1
- Current value: 1