B. Perform multiple regression for prediction.

Quantity Sold	price in dollars	Advertising in dollars
8500	2	2800
4700	5	200
5800	3	400
7400	2	500
6200	5	3200
7300	3	1800
5600	4	900

Go to Data tab > Data Analysis > Regression > Click Ok.
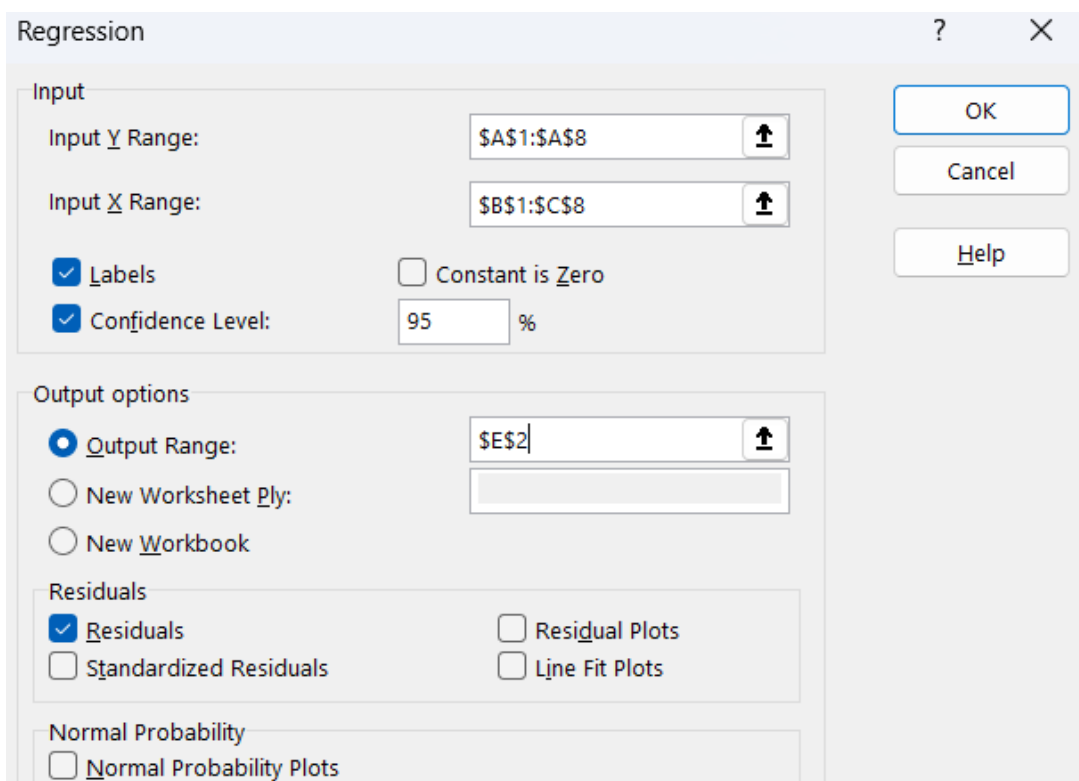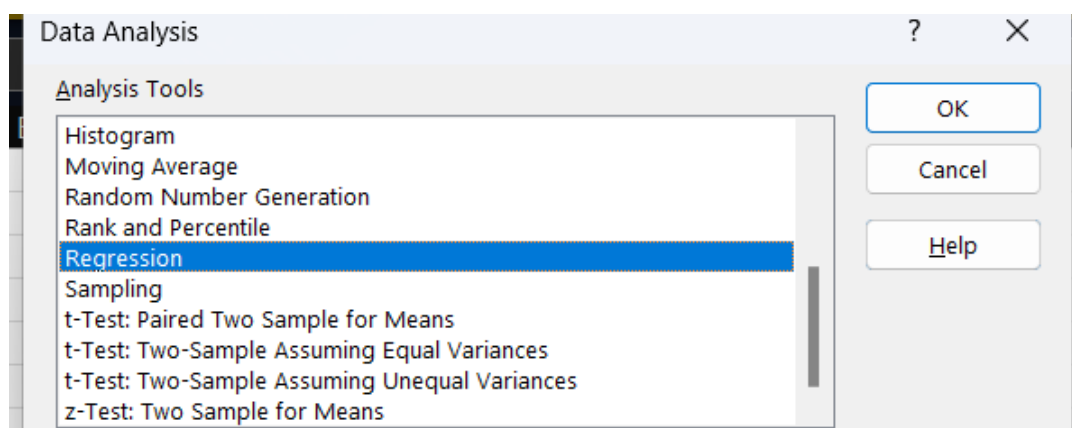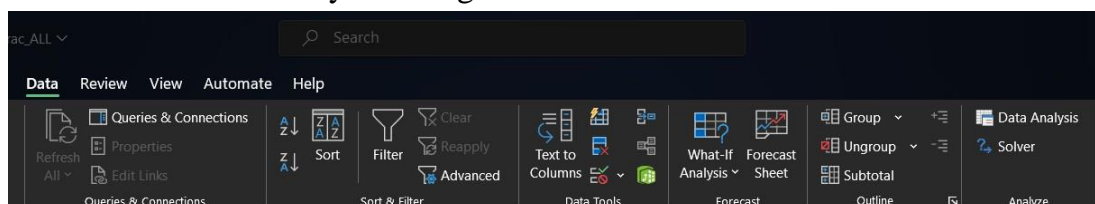
Select **input Y range** – A1:A8.
Select **input X range** – B1:C8.
Check checkboxes for Labels and Confidence Level.
Select **output range** – E2. Check checkbox Residuals.
Click Ok.

Output:

	E	F	G	H	I	J	K	L	M
1									
2	SUMMARY OUTPUT								
3									
4	*Regression Statistics*								
5	Multiple R	0.980681431							
6	R Square	0.961736068							
7	Adjusted R Square	0.942604102							
8	Standard Error	310.5239249							
9	Observations	7							
10									
11	ANOVA								
12		*df*	*SS*	*MS*	*F*	*Significance F*			
13	Regression	2	9694299.568	4847149.784	50.26854403	0.001464128			
14	Residual	4	385700.4318	96425.10794					
15	Total	6	10080000						
16									
17		*Coefficients*	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
18	Intercept	8536.213882	386.9117478	22.06243137	2.49812E-05	7461.974654	9610.453111	7461.974654	9610.453111
19	price in dollars	-835.7223514	99.65304469	-8.386320297	0.001106064	-1112.40356	-559.0411432	-1112.40356	-559.0411432
20	Advertising in dollars	0.592228496	0.104346803	5.675578729	0.004755309	0.302515325	0.881941666	0.302515325	0.881941666
21									
22									

	E	F	G
23			
24	RESIDUAL OUTPUT		
25			
26	*Observation*	*Predicted Quantity Sold*	*Residuals*
27	1	8523.008967	-23.00896712
28	2	4476.047825	223.9521754
29	3	6265.938227	-465.9382265
30	4	7160.883427	239.1165726
31	5	6252.733311	-52.73331119
32	6	7095.05812	204.9418798
33	7	5726.330123	-126.3301229
34			