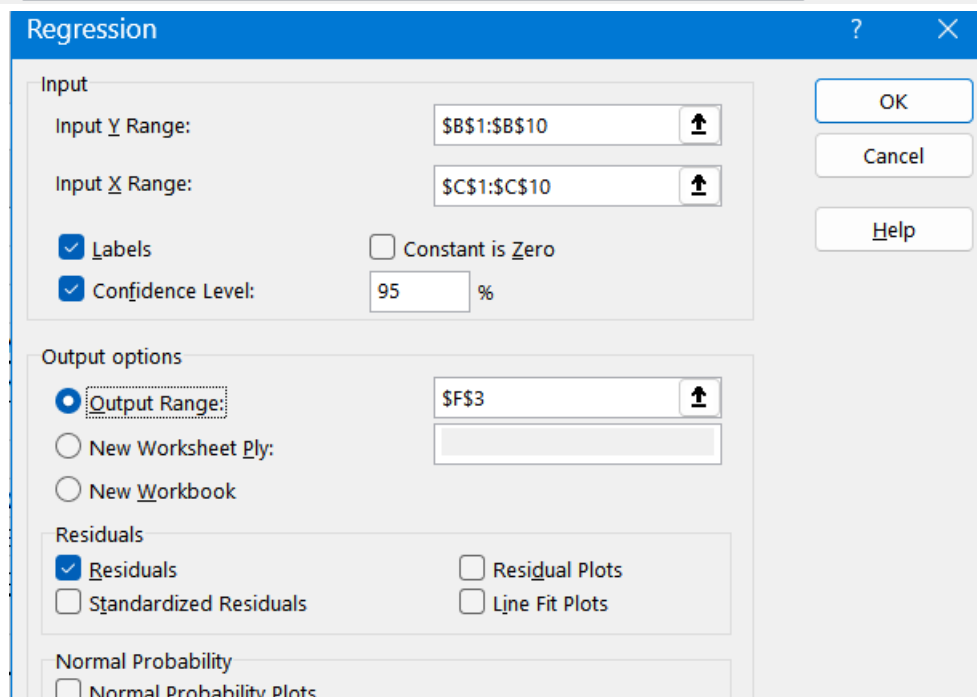
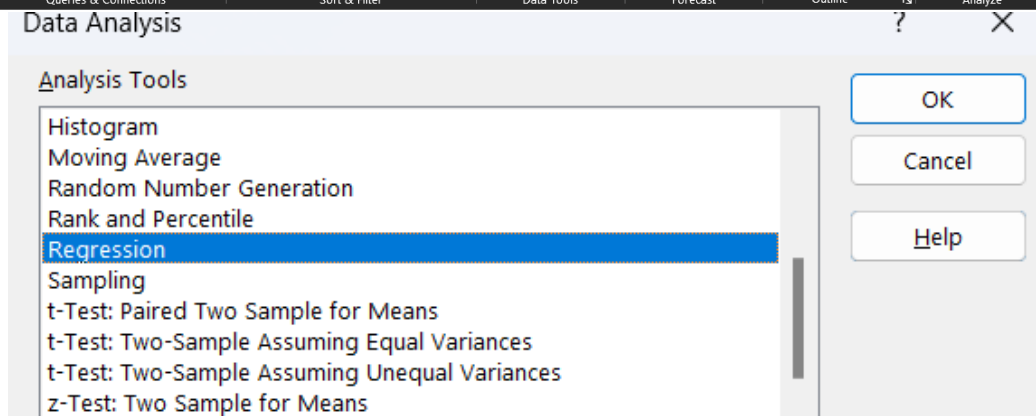
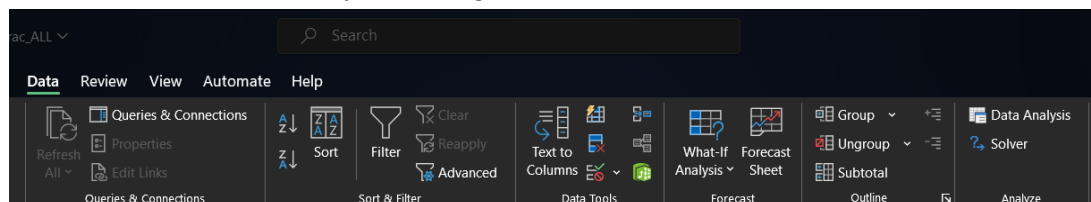


## Practical: 10

### A. Perform linear regression for prediction.

Car_Name	Selling_Price	Present_Price
ritz	3.35	5.59
sx4	4.75	9.54
ciaz	7.25	9.85
wagon r	2.85	4.15
swift	4.6	6.87
vitara brezza	9.25	9.83
ciaz	6.75	8.12
s cross	6.5	8.61
ciaz	8.75	8.89
ciaz	7.45	8.92

Go to Data tab > Data Analysis > Regression > Click Ok.



Select **input Y range** – B1:B10.

Select **input X range** – C1:C10.

Check checkboxes for Labels and Confidence Level.

Select **output range** – F3.

Check checkbox Residuals.

Click Ok.

### Output:

SUMMARY OUTPUT								
Regression Statistics								
Multiple R	0.806128							
R Square	0.649843							
Adjusted R	0.599821							
Standard Error	1.431531							
Observations	9							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	1	26.62226	26.62226	12.99103	0.00869			
Residual	7	14.34496	2.04928					
Total	8	40.96722						
Coefficients								
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-1.21357	2.058974	-0.58941	0.574111	-6.08227	3.655128	-6.08227	3.655128
Present_Price	0.909337	0.252292	3.604307	0.00869	0.312762	1.505913	0.312762	1.505913

RESIDUAL OUTPUT		
Observation	orted Selling	Residuals
1	3.869624	-0.51962
2	7.461505	-2.71151
3	7.7434	-0.4934
4	2.560178	0.289822
5	5.033575	-0.43358
6	7.725213	1.524787
7	6.170247	0.579753
8	6.615822	-0.11582
9	6.870436	1.879564