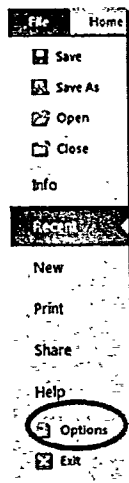


Introduction

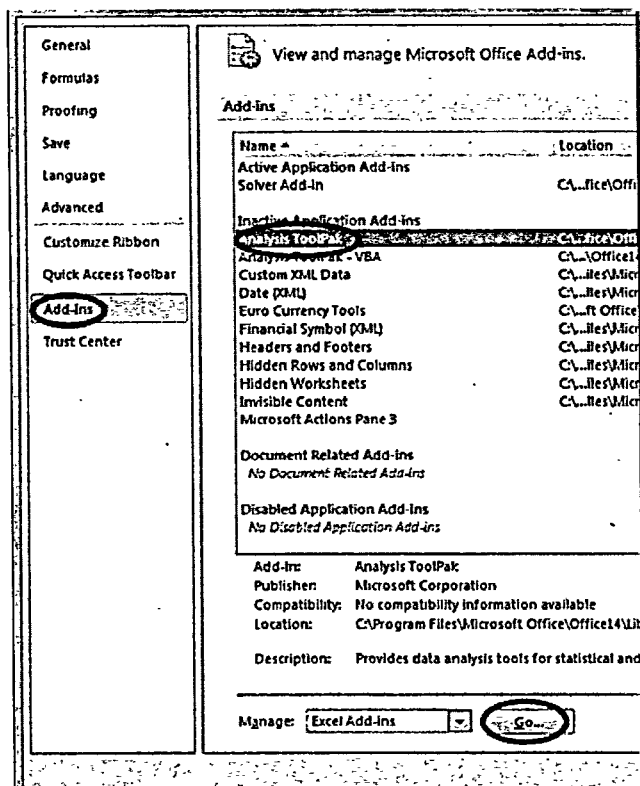
The popularity of Excel around the world needs no explanation. It includes almost all the features to satisfy the needs of professionals. Microsoft Excel also bundles strong features for statistical and engineering calculations. All such features are called Data Analysis techniques and Excel contains the *Data Analysis* (aka. Analysis Toolpak) tab.

How To Enable Data Analysis (Analysis Toolpak)

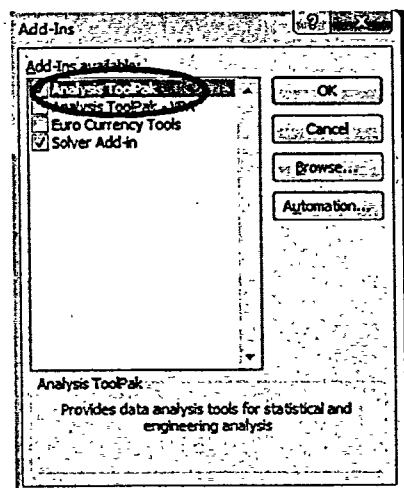
Data Analysis(Analysis Toolpak) is an add-in for Microsoft Excel which is disabled by default. To enable it click the Office button, then go to Options.



Click on the Add-Ins option and you will see Analysis ToolPak option in the list. Hit the Go button at the bottom.

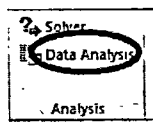


Now select the *Analysis Toolpak* option and click *OK* to complete the configuration.



How To Access Data Analysis

Once you have enabled it, go to the *Data* tab and locate the *Data Analysis* option under the *Analysis* category.

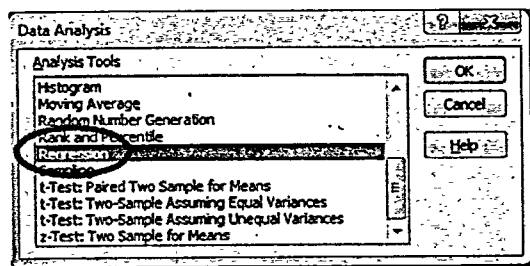


What Is Regression Analysis

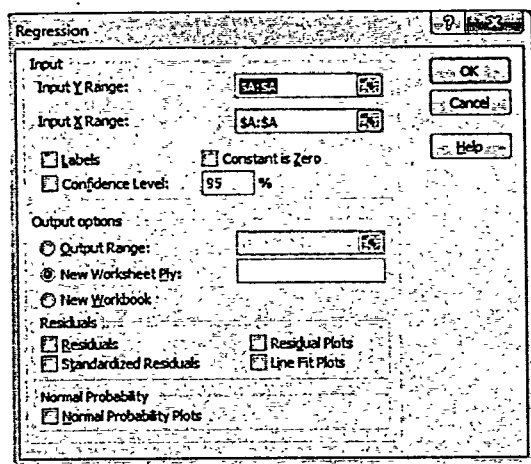
Regression analysis is a pure statistical term which includes the techniques for modeling and analyzing several variables, when the focus is on the relationship between a dependent variable and one or more independent variables. In layman's term, it lets you see how value of one variable (also called dependent variable) changes when any one of the independent variables varies.

Accessing Regression Analysis In Microsoft Excel 2010

The Regression function is available under the Data Analysis feature of Microsoft Excel. Once Data Analysis is enabled, open it and choose the *Regression* option and hit Enter.



It will launch the dialogue box which will let you apply the regression feature on your data.



Lets review the main elements in the above mentioned dialogue box, Input Y Range option lets you specify the dependent variables and the Input X Range option lets you specify the independent variables. Output options specify how you would like the results to be displayed, Residuals contains options to draw the results as charts.

SUMMARY OUTPUT										
SUMMARY OUTPUT										
Regression Statistics										
Multiple R	0.707106781									
R Square	0.5									
Adjusted R Square	0.4									
Standard Error	1.414213562									
Observations	3									
ANOVA										
	df	SS	MS	F	Significance F					
Regression	1	5	5	0.5	0.5					
Residual	1	5	5							
Total	2	10								
Coefficients										
Intercept	30									
X Variable 1	0									