***# Documentation on Multinomial Regression.***

Q1. 1. You need to predict the type of program a student is in based on other attributes --> mdata.csv

prog: is a categorical variable indicating what type of program a student is in: General(1), Academic (2), or Vocational (3)

Ses:is a categorical variable indicating someones socioeconomic class: Low (1), Middle (2), and High (3)

read,write,math,science: is their scores on different tests

honors: Whether they have enrolled or not.

**ANALYSIS ON MDATA.**

* Data set of mdata was taken for predictive analysis and a data frame was created.
* Its a categorical data.So algorithm of Multinomial regression was implemented.
* Here the type of program for the student data base was calculated and it was found that
* Academic -105
* General- 45
* Vocation-50
* The socioeconomic class was evaluated:
* High-58
* Low-47
* Middle-95
* Residual Deviance was found to be-0.033
* AIC-26.033
* Students enrolled-53
* Students not enrolled-147
* So this model evaluated the above problem in better way.