ACTIVITY-1

Real-life Data Analysis Challenge

NAME: Nikhil Kumar
REG. NO. : 12304824
ROLL NO. : 32
COURSE CODE: MTH302

SUBMITTED TO: Dr. Indu Bala Mam

DATA CONSISTS OF daily stydy hours vs exam scores

Dataset consists of:

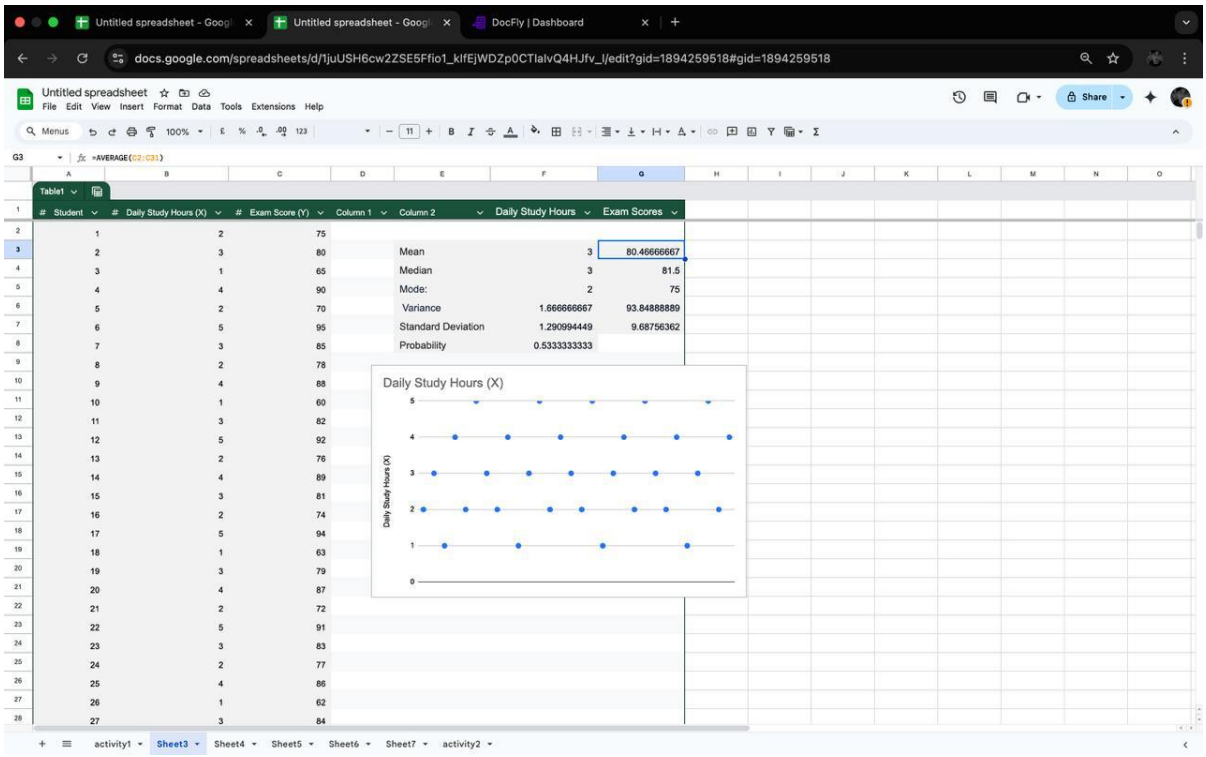
- (X): Daily Study hours
- (Y): Exams Score

Statistical Calculation:

Mean:
The mean(average) is calculated as:
Mean= =∑X/N

where X is the sum of all values, and N is the total number of values.

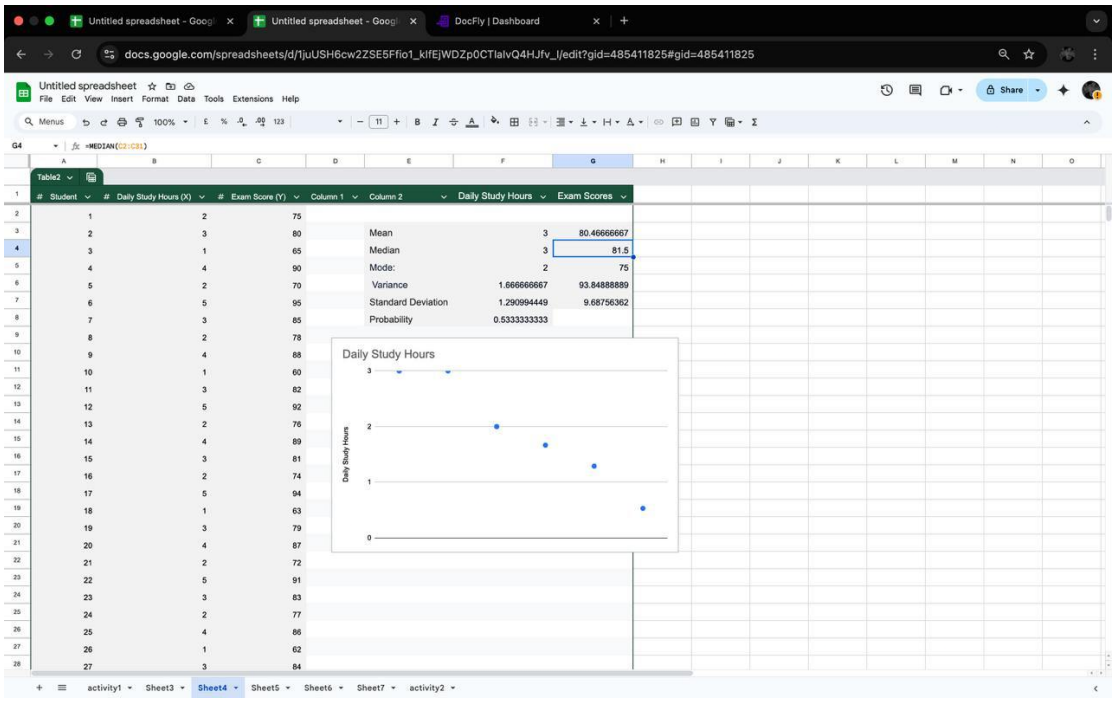
Mean of Daily Study Hours(X) and Mean of Exams Score(Y):



Median:

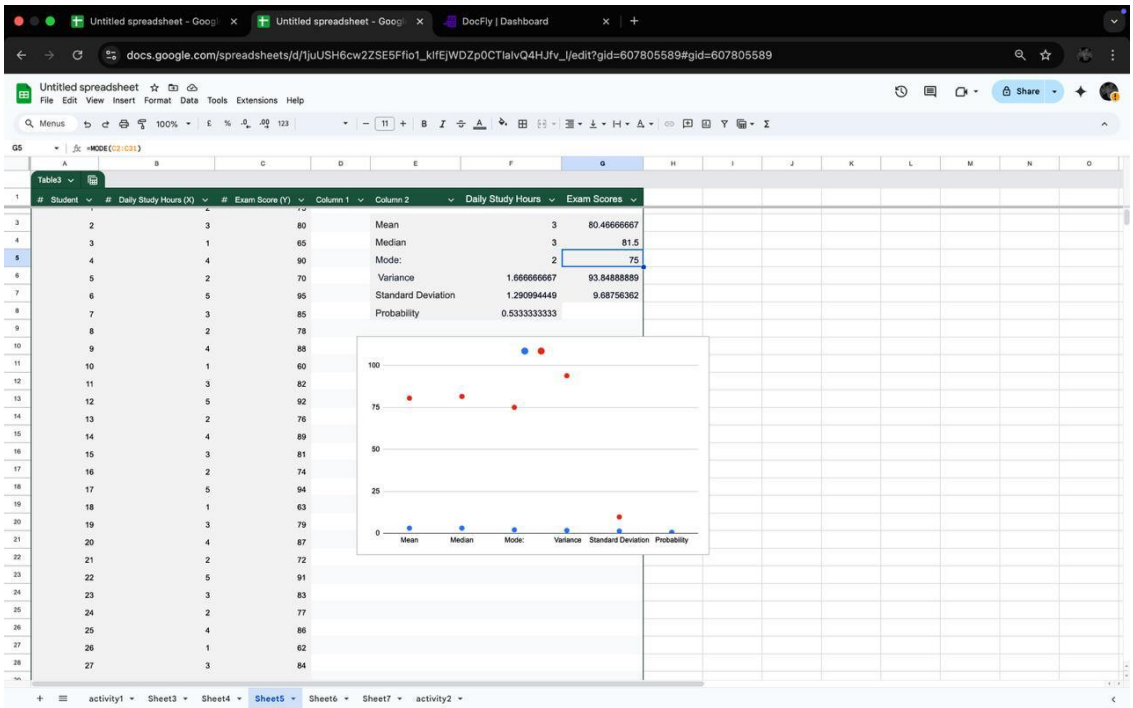
- The median is the middle value when data is stored.

Median of Exam Scores:



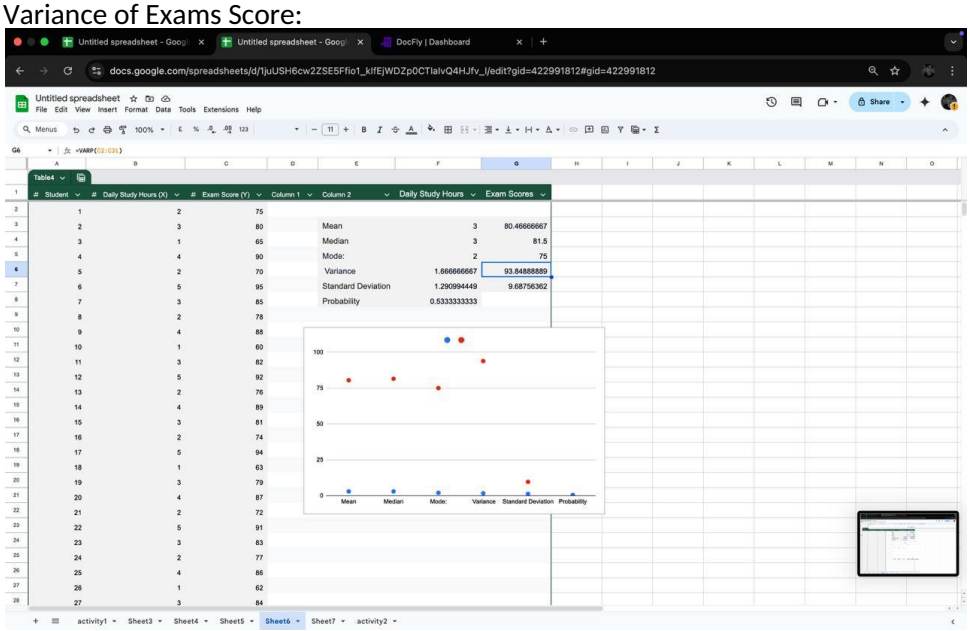
MODE:
The mode is the most frequency of occurring value.

Mode of Exam scores:

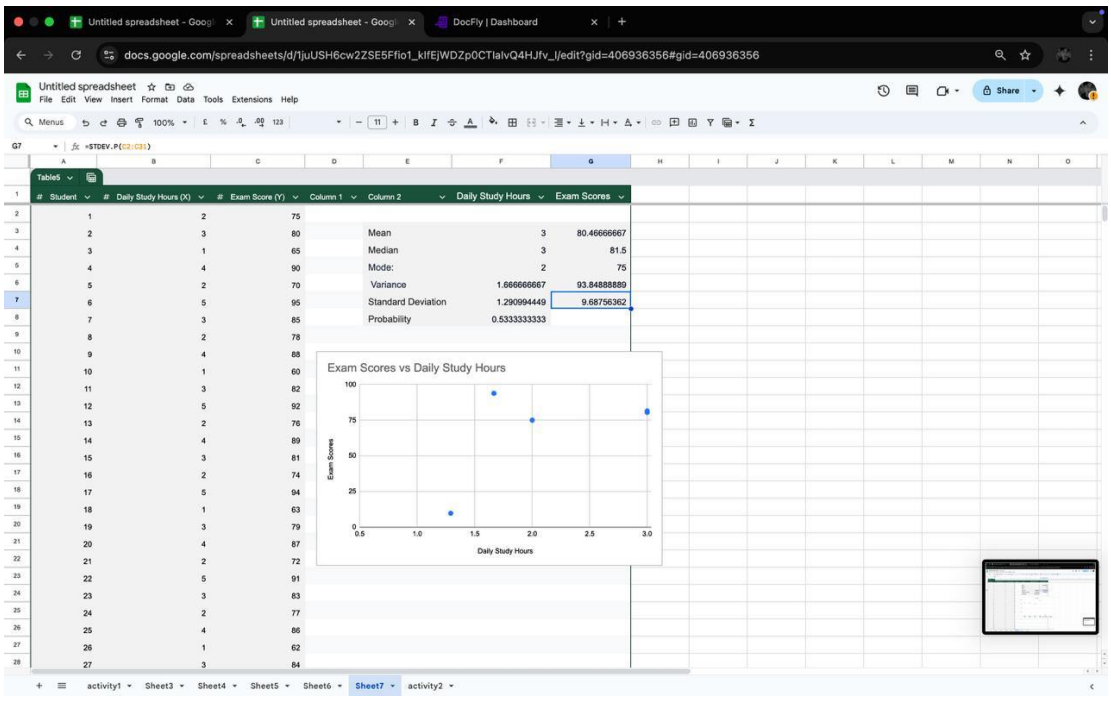


Variance:
Variance quantifies the variability or spread of a dataset around its mean (average).

Variance of Exams Score:



Standard Deviation:

- Standard deviation tells us how much values deviate from the mean.
- Standard deviation is square root of Variance.

Standard Deviation of Exams Score: