NORMAL DISTRIBUTION

The **get pdf probability** function calculates the probability of a dataset. Its calculate specified range (startrange to endrange) by using probability density function.

Libraries:

* + Import **pyplot** from **matplotlib** for creating plots.
  + Import the normal distribution function norm from **scipy.stats.**
  + Import **seaborn** as **sns** for creating d distribution plot.
  + Plot the dataset as a green histogram with a blue **KDE** (Kernel Density Estimation) curve.
  + Add vertical red lines at the positions specified by startrange and endrange to define the range of interest.
  + Calculate sample statistics the **mean** (sample\_mean) and **standard deviation** (sample\_std) of the dataset and print them.
  + **Dist** creates a normal distribution based on the calculated sample mean and standard deviation.