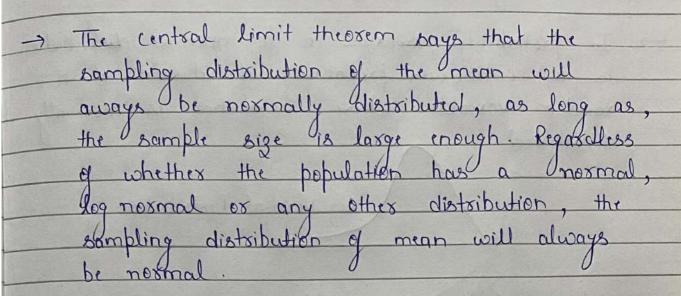
Central Limit Theorem



following Normal/Gaussian distribution and if we take multiple samples (\$1,52,53,--5m) of some sample size (n) and if we calculate the mean of all samples and then plot it, then the sample mean will follow a normal/gaussian distribution.

Normal.

2 -> with n sample size (n230)

 $3_1 = \{x_1, x_2, \dots, x_n\} \rightarrow \overline{x_1}$ $3_2 = \{x_1, x_2, \dots, x_n\} \rightarrow \overline{x_2}$ $x_1 = \{x_1, x_2, \dots, x_n\} \rightarrow \overline{x_2}$

In = {x, x, --- xn} - xm samplingdistribution of