degree sof free donn for sample vou ance mean = parameter (M)= Xi

& population | parameter (M)= Xi

N

N mem estatistie $(7) = \frac{5}{12} \times 10^{\circ}$ 62 = 2 (xi-H) 2 000 Vouance = (how mich detapoints vay from the near $S^2 = \sum_{i=1}^{n} (x_i - \bar{x})^2$

 $S_{n-1} = \sum_{j=1}^{n} \left(x_{j} - \overline{x}\right)^{2}$ Unlegased (h-1) Smaller number then we will get a larger value. why Sn leiased & Sn-1 Unterased? is very done to the pe population means Parameter) DDD -> sample mean is not closed to
the population mean (much lower estimate
Thanh actual mean) produceding here 8h will be under estimated and smaller sample ramiones to lent Sn-1 will be comparatively larger Sample vornances.