O CLT.  $\times NN(u,6^2)$ ,  $Z \sim N(0,1)$ .  $S = \frac{2}{X-W}$ Them. CLT. are ni.i.d. distanton variables X statistical inference If X1, X2, ..., Xn  $Var(Xi) = 6^2$   $-2 < t = \frac{x - M}{5/5n}$   $\sqrt{2}$   $\sqrt{x - M} < 2 < \frac{5}{5n}$ with E(Xi)=M. then  $\Sigma_{X}$ :  $N(nM, n\delta^2)$  recall  $X-2\cdot \sqrt{n}$ .  $X = \frac{\Sigma_{X}}{n}$   $X = \frac{\Sigma_{X}}{n}$   $X = \frac{\Sigma_{X}}{n}$   $X = \frac{\Sigma_{X}}{n}$  $\wedge \wedge \chi_{s}(u)$  $Z = \frac{\overline{X} - M}{\sqrt{6} \sqrt{n}} \sim \mathcal{N}(9,1)$ Quhatis V? 52 is the Sample Variance let  $V = \frac{(n-1)5^2}{8^2}$ to-estimate 62. ract: Vn x2(n-1).  $G^2 = E((X - E(X))^2)$ t= \\\ \frac{x-M}{x-M}  $= \frac{\sum_{i=1}^{2} \frac{def}{\sum_{i=1}^{2} (X_{i} - \overline{X})^{2}}}{\frac{\sum_{i=1}^{2} \frac{X_{i} - \overline{X}}{\sum_{i=1}^{2} (X_{i} - \overline{X})^{2}}}$ ( J-1)52/(n-i)