Pranau Vinod UMOUSSD 1.D. 01984464 DATE ____ PAGE ___ n= 35 1 un < 100 Null Hypothaisto, > un = 100; interpreted as "zone is safe" HA, > un >100; interpreted as zone is unsage 1 our level of significance, x = 0.02 Testing Statustic, T = X - 4 From the Z-table, rejection level is greater values them 2x. From the table, 7x = 2.05; i.e. $R = (2.05, \infty)$ T= X - 100 $\frac{2 \cdot 330}{2 \cdot 330}$ = 1.055 Since 1.055 & R Can't Reject mill hypothesis at 2=0.02

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(2) Null hypothusis, No -> un = 1 ; interpreted as "coin is fair"

Alternate hypothesis, HA > UN +1; interpreted as "coin is biased"

Assumed Level of significance, x = 0.02.

Testing statistic, $t = \overline{X} - P$ S.D.(\overline{X})

We are looking for values both greater than 2 Less than Zx.

"a Region of rejection is (-00,-2x,2) &

(2x,100)

we can generale simulated win tosses using R and that can be our dataset.

Can reject or not the null hypothesis at $\alpha = 0.02$.