Run Test (Test for Independence)

- It's a two Iculial test

- It's a two Down [RURD]

- Run up & Run Down [RURD]

Steps
Sti- Setting up of Hypothesis

Hol- There RI Ju [0, 1] R + U [O,1] 82:- Write clown sequence of run ups S3:- Count total number of runs present in
the sequence. (9) Sz calculate : means & variaires as $u_{\alpha} = \frac{2N-1}{3}$ $G_{\alpha}^{2} = \frac{16N-29}{90}$ Sg:- realculante 7 tab = 3-4a 96. Determine Zcalc = Z2/2 57: Compare 2-tais & 2 code 1f: -2x/2 \ Z \ Z \ \ A clept Ho \ eyse Reject'

Numerical 1 0.12, 0.01, 0.28, 0.33, 0.93, 0.89, 0.31, 0.64, 0.28, 0.33, 0.93, 0.89, 0.31, Segui Solni Hois H1 Sz:- Sequence of Run Up & Run Down -+++-+-++total no of runs (a) = 6 $S_3 = M = 2N-1$ $6^2 = 16N-29$ 90= 16×10-29 $= 2 \times 10^{-1}$ = 1.45 = 6.33 S4. Ztub = a-uq = 6-6.3> S_5 Z cute tub = $\frac{7}{2}$ = $\frac{2}{0.025}$ = -1.96Zx = Zcoc = Zx -1:96 Z-0279 Z 1.96 So accept Ho.

Scanned with CamScanner

Numerical 2 Confidence 90%, sequence 0.23, 0.16, 0.44, 0.39, 0.15, 0.08, 0.39, 0.67 0.50, 0.47, 0.32, 0.62, 0.95, 0.52, 0.89 0.94, 0.38, 0.10, 0.85, 0.24, 0.03, 0.88, 0.24, 0.56, 0.62, 0.05, 0.17 * Run Above & Below The Mean (RARB) Si: Same as RURD Sz Define run sequence with respect to the mean for Otol it is 0'495 S3: Calculate total number of rung b n, & nz where n, is values 7 mean & values & means Sy. calc 4 & 62. $u_b = \frac{2n}{N} \frac{1}{2}$ $6^{2}b = 2n_{1}n_{2}(2n_{1}n_{2}-N)$ Sy = Z calc = 2 5-45 So Zx = Ztab Sq Compare Z cello & Ztab
-2 = Zcale = Zox Accept Ho

Numerical: 11, .23, .45, .08, .11, 50, 0.9, 60; 81 ×= 0.05-