Ho = diffendey hypothisis/ claimed H = Attacken "/ new Claim in Hypothibis festing we try to examine Significance of H. it significance of His high. it mean he ib upto bomthing and Not to be ignormed * prooven by Dignificance Test it not proves that "previous Claim was false "but the aredibality can be apestioned.

if Significance of H, it low * just ignome H,
"Eumpine Stick with Decision"

if P = X => Ho Two Tailed test $P \neq X \Rightarrow H_1$ $H_1 \Rightarrow P \neq X$ if p and x nelation -> one tailed test uclation is non pin point like \leq , \geq , >, <for Hooy Hi Hi > PLX H₁=>P>X on P≥X

Type I Emon = Rejecting Ho when it is true mean & was a wrong belection it should have bin High P = Ho Thure a = after Type/ennon Connection 1-P=H, TAVE x = x after Type 2 erman connection Change fuo m (Change fuo m). × × × × × × × if result in X1 accept Ho arreq under is X2 reject Ho Conve * X2 is when H, significance is low that Ho=> P < 30 is wrong it is more than

bo accept Hi

* X, is when H, significance is High * that means Ho=> P < 80 is night both, is used to prove on not the claimes to

Nonmal distribution -> continous data distuibution with beel comme usually been in world bo! Normal".

Standard Nommal dist -> Nommal dist with standard deviation = 1 "5" and mean = 0"m"

* Note Hypothib work on bumple mean distribution

When Sample Size is (n) and population STD(6) ON bample 5TD (5), "mean (4) 1) n < 30, o = not known then use t = X.-M 2) $h < 30 \rightarrow 6 = Known$ then use $Z = \overline{X} - M$ $h > 30 \rightarrow 6 = Unknown \rightarrow S not 6$ if P (propontion) given not X'(mean)

Confidence level (aka confidence) = C Significance level = 0 = 1-C CI=(n,m) internal two tailed Confidence level (left on , Right) Confidence l'Evel + 1 Onctailed (two tail) Auea = 1-CL left = 1-CL Right = 1 One tail Anea = CL, H, ouca = 1-CL AL-> convented to -> Zx

mangin of erron -> used to find mangepopulation 4 Sample M

Sample M

Remay Bound for M

Mean (EBM)

Mangin of ermore between (n to m) = CI CIKEBM EBM = CIdiff proportion

Sumple Size
$$\Rightarrow$$
 $P = X | Q = 1-P$
(Mean) $N = Z^2 = BM^2$
(Proportion) $N = Z^2 = P(1-P) = Z^2 = PQ$
 $EBM^2 = EBM^2$
Proportion mangin of array
 $P = PQPW$ which proportion
($P = PQPW$ array)
 $P = PQPW$ which proportion
 $P = PQPW$ P