T-Test And test compose the mean of two voricitios, compale the difference between the two various for each rule and term to see if the average different is significantly different From zera Details / Restrictions: - Value of t will be zero if there is no different in the dota -One sample t-test. To test whether a mean may be different from a non-zero value, subtract that value from each data value i.e. To test the mean number of visits to shop is equal to 3, test whether the men of (number of visits to sup-3) is equal to a To make a paired tell between two data value, test wells the different between them s zone SE - difference in the two means Juan + year Variane= (Standard deviation)2 Hypten Ho= Hnew - Hund=0 (no difference in means) H mew - usual +0 (difference in meuns). Thest formula: XI - X2 was 1 Df = n,+n2 -2 Using of and $\alpha = our (9r)$ confidence create the confidence interest of the in the interest of no evidence to regelt Ho

P 16 Od La H (and - base produce accords
P IF P IS less than ox (0.05), we have evidence against Ho (i.e. it is outside 957 interval)
to local mark a mark of the distance of the same of
95% es for difference: long team mean for 11, between 2 works 35 Mars
The Miles to the first to the person of the
Example Start 2012 g3 months all model
no froud us froud notes (measure of length!
froud work work mean with st-day of SEMENTON MORE STORES
10 10 10 124720 10-355 0195 0:036 0 MM HARRING
40 100 010 13019 00 0.28 0 0:030 1101 Detail 1000
Difference = pru(no) vs mu(yes) or there to remain to compare
Difference = mu(no) vs mu(yes)
Estimole for diffusion -0.4730 Ix2
957. (1 for difference (-0.5645, -0.815) long term (1 for "no"
T test Gof difference 0 (vs not=): T-volo=-10-20
P-Volve < v.cd DF=198
both used podal steller = 0.3286 All managements = 36
H_{α} $Moun(a) - poon(a) = 0$
H. Man (m) - pan (yes) to. (change) belong (see and see
Ttor = X1-X2 10.1969
variar, + vaz (0.30)2 + (0.30)2
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
The supplie x - x - x - x - x - x - x - x - x - x
951. Cl Of=148 d=0.05 -1.47 EC1.47
Toutside intervil, endance against Ho.
Probe: P(<0.001) is <0.00, eudence against Ho
45% Cl for Affrance: (-0.5-645, -(12815)
Long term meon for length of not frow is between (-0.5645, -0.3815) Long term meon for length of not frow is between (-0.5645 and -0.3815) Smoller than froud notes
(-0.5645 and -0.3815) Smaller than froud notes

	7.3
	One Sided T-test.
0	
	1) the population (long term mean bounce beight) from the
	more bruse land then the population (lung term
	15 the population (long term mean bounce beight) from the new process higher than the population (long term mean hounce beight) from the usual process? He when - mission < 0 (focusing an right to) He mine - mission < 0
	H. Minen - M Whol 70
	Test Statistic: (Xnew-Xusual) - hypothyled value
	SE (Rna - Ruha)
	handland idle - use the indicate within and a
	hypothyled white : use the worst cok which is value = 0 OF = Now + num - 2
	Need 57- One to right: 0x=0.05 do 0x2 = 0.10 gives
	0.05 Early Side
	IF t is outside interval, evidance against the paverage of rew
	is higher than overge of which
	Example:
	Different & mu(new) - mu (mornal)
	Through av district 2016
	no lover for different 0771
	T-TOP TO CITIENTIE - O (037)
	P Voller = 0.004 DF = 198 Both Used Boded St Dev = 5-2926
	957. lower bound = Sample difference - 165 * SE (different)
	2 010 - (25 25 :
	1.65 = Upper bound figure

