

Pr: 350 digits were chosen at the random the set of Tables. There are given below.

Digit	Frequency
0	36
1	34
2	35
3	39
4	29
5	34
6	36
7	32
8	40
9	35
	<hr/>
	350

Use  $\chi^2$  Test to test the correctness of the hypothesis that the digits distributed in <sup>equal</sup> ~~At least~~ numbers when Table when choose.

Ans:-

Null hypothesis:-

on the basis of null hypothesis there no significant that no of devotes <sup>various</sup> digit distribute in equal number.

## Expected frequency :-

On the basis of null hypothesis, expected frequency can be calculated.

O	E	(O-E)	(O-E) <sup>2</sup>	$\frac{(O-E)^2}{E}$
36	35	+1	1	0.02
34	35	-1	1	0.02
35	35	0	0	0.00
39	35	+4	16	0.45
29	35	-6	36	1.02
34	35	-1	1	0.02
36	35	+1	1	0.02
32	35	-3	9	0.25
40	35	+5	25	0.71
35	35	0	0	0.00
				<u>2.15</u>

## Result :-

Since the calculated value of  $\chi^2$  Test is less than the table value less than Accepted