**P- value problem:**

H0 : Mean >= 5

HA : Mean < 5

n = 40

Sample mean = 4.8

S = 0.50

Significance level = 2% = 0.02

Confidence level =98%

p-value < significance level = reject H0

p-value >= significance level = fail to reject H0

Zc = 4.8 - 5 /(0.50/sq.rt(40))

=2.53

A picture containing text, hanger

Description automatically generated

Z value from table = 0.99430

= 1 - 0.99430

= 0.0057

**P- value = 0.0057**

 P-value < significance level = **0.0057 < 0.02**

So we reject the null hypothesis.

**At 2% significance level, there is an enough evidence to support the idea that warranty should be revised.**