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In [1]: from scipy import stats
        from scipy.stats import norm
In [2]: # Assume Null Hypothesis is: Ho = Avg life of Bulb >= 260 days
        # Alternate Hypothesis is: Ha = Avg life of Bulb < 260 days
In [3]: # find t-scores at x=260; t=(s_mean-P_mean)/(s_SD/sqrt(n))
        t=(260-270)/(90/18**0.5)
        t
Out[3]: -0.4714045207910317
In [4]: # Find P(X>=260) for null hypothesis
In [5]: # p_value=1-stats.t.cdf(abs(t_scores),df=n-1)... Using cdf function
        p_value=1-stats.t.cdf(abs(-0.4714),df=17)
        p_value
Out[5]: 0.32167411684460556
In [6]: # OR p value=stats.t.sf(abs(t score), df=n-1)... Using sf function
        p_value=stats.t.sf(abs(-0.4714),df=17)
        p_value
Out[6]: 0.32167411684460556
In [ ]:
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