1. Covariance will be other than Zero and Correlation coefficient will be +1 or -1.
2. Answer is B ( Normal distribution)
3. Variance S2 = 12.46

Standard Deviation = 3.40

Data Analytics

2. r = 0.83

That means if NYSE increase then NASDAQ increases.

T = 4.17

df = 8

Considering significance level = 0.05

critical t = 2.306

Since T > Critical t , the relationship is significant and we fail to reject the null hypothesis.