You may visti links below for manual calculation.

Correletaion-

<https://www.mathsisfun.com/data/correlation.html>

Covariance-

<https://byjus.com/maths/covariance/>

<https://www.mathgoodies.com/lessons/vol6/independent_events>

<https://www.mathgoodies.com/lessons/vol6/addition_rules>

<https://www.investopedia.com/ask/answers/021215/what-difference-between-standard-deviation-and-variance.asp#:~:text=Key%20Takeaways,average%20of%20all%20data%20points>

<https://learn.upgrad.com/v/course/791/session/90255/segment/504929>

<https://www.youtube.com/watch?v=gUp2xk5pJcM>

Online visualization tool

<https://www.mathsisfun.com/data/data-graph.php>

<http://onlinestatbook.com/stat_sim/sampling_dist/>

<https://www.intmath.com/counting-probability/normal-distribution-graph-interactive.php>

Probability Questions

<https://www.careerbless.com/aptitude/qa/discuss/270_1.php>

<https://www.six-sigma-material.com/Binomial-Distribution.html>

<https://learn.saylor.org/course/view.php?id=109&sectionid=3922>

<https://www.analyzemath.com/statistics/normal_distribution.html>

<https://crumplab.github.io/statistics/probability-sampling-and-estimation.html>

Moving normal distribution

<https://crumplab.github.io/statistics/probability-sampling-and-estimation.html>

<https://www.youtube.com/channel/UCiiyrRcEuDSzInajTud90Sw>

Mean:

<https://www.youtube.com/watch?v=mk8tOD0t8M0>

Normal Distribution :

<https://www.youtube.com/watch?v=2tuBREK_mgEE>

Sums:

<https://www.analyzemath.com/statistics/normal_distribution.html>

<https://sites.google.com/site/fundamentalstatistics/chapter-9>

In a regression line equation, if the regression coefficient of the independent variable is 0, then it means there is no significant relationship between the dependent and independent variables. If the regression coefficient is non-zero, then it means there is a significant relationship between these two variables. Therefore, the hypothesis for this testing is

“H0: Regression coefficient of ‘distance to office'= 0”

 And “Ha: Regression coefficient of ‘distance to work’ ≠ 0”.

The hypothesis for the overall significance test is —   
H0: All the independent variables have no significant influence on the dependent variable.  
Ha: At least one independent variable has a significant influence on the dependent variable.  
   
Mathematically,  
H0: Regression coefficients of the household size, annual income, and annual credit card charges are zero.  
Ha: At least one coefficient of the household size, annual income, and annual credit card charges is non-zero.