

Ahsanullah University of Science and Technology

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

EEE 3110

Numerical Technique Laboratory

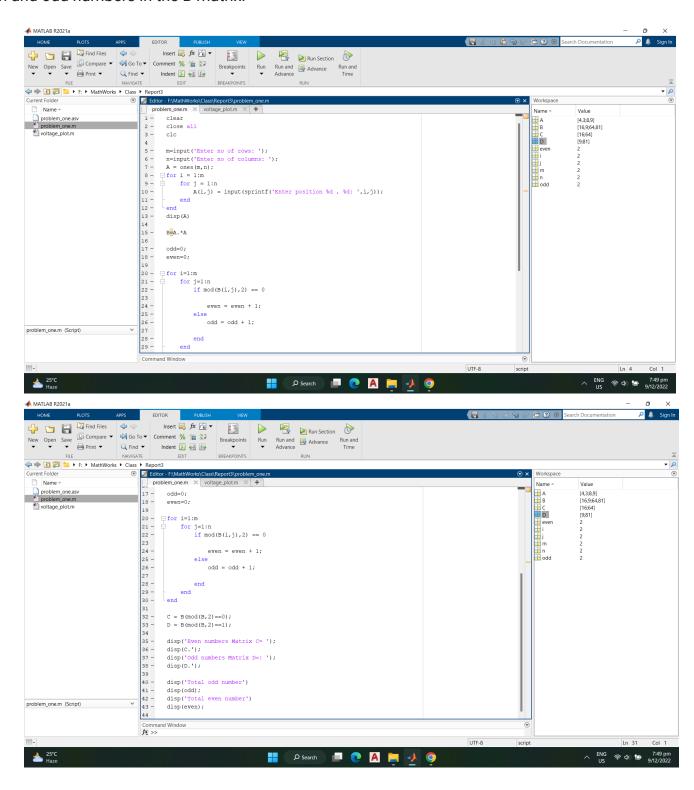
Report No. : 03

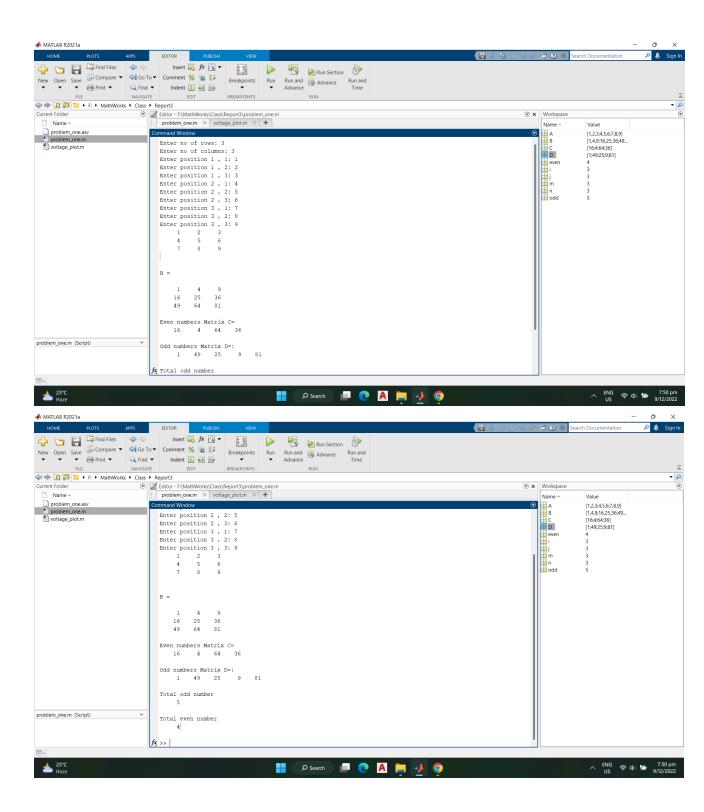
Date of Submission : 11/12/2022

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Problem-1:

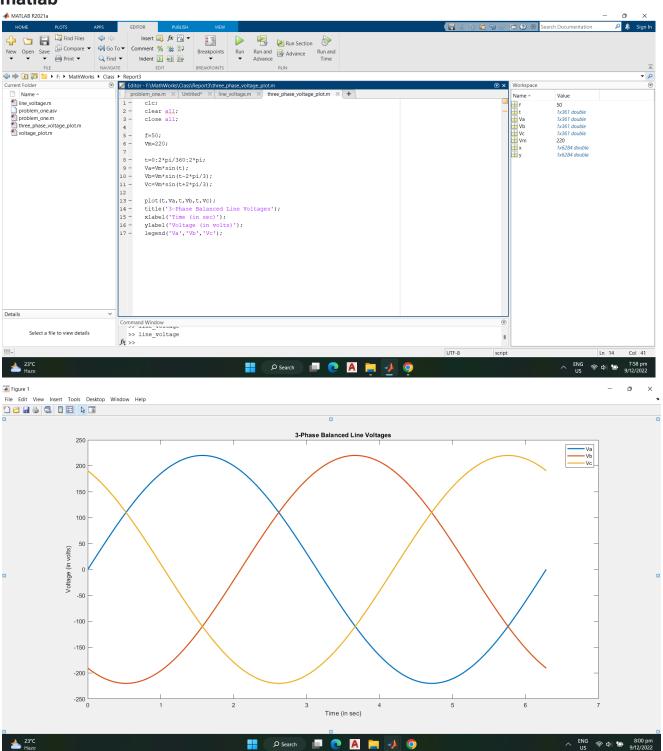
Determine the square of every element that generates the B matrix. Display the even numbers and odd numbers in a separate matrix (C and D). Count the total number of even and odd numbers in the B matrix.





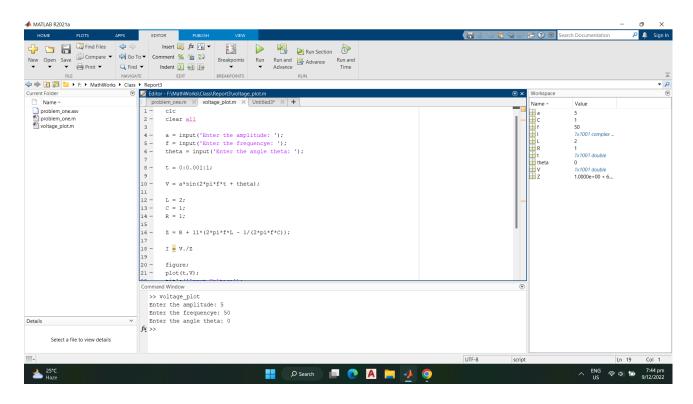
Problem-2:

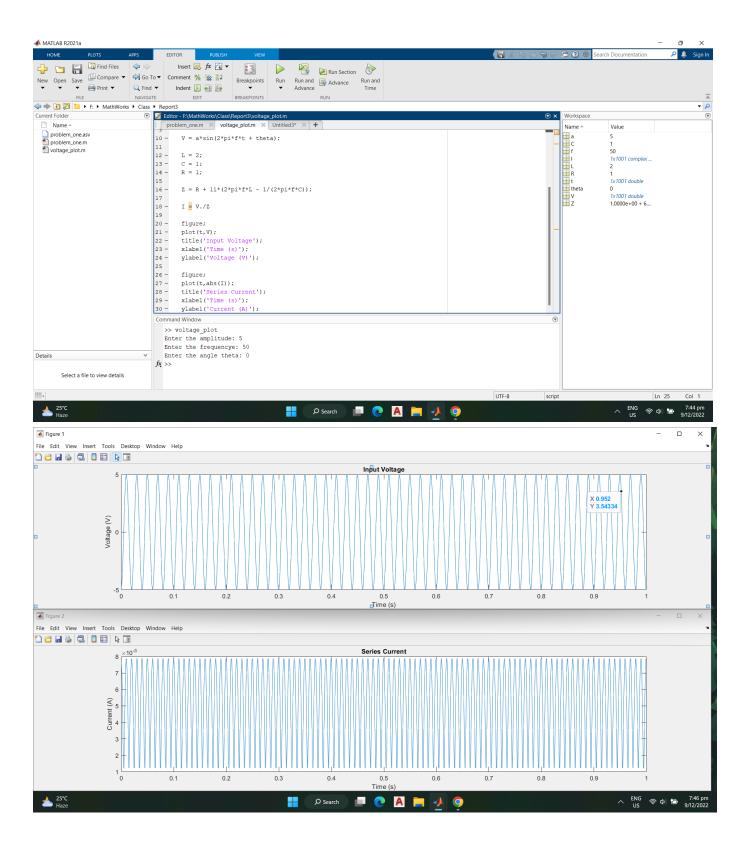
Draw the line voltages of 3 phase balanced system in same figure in matlab



Problem-3:

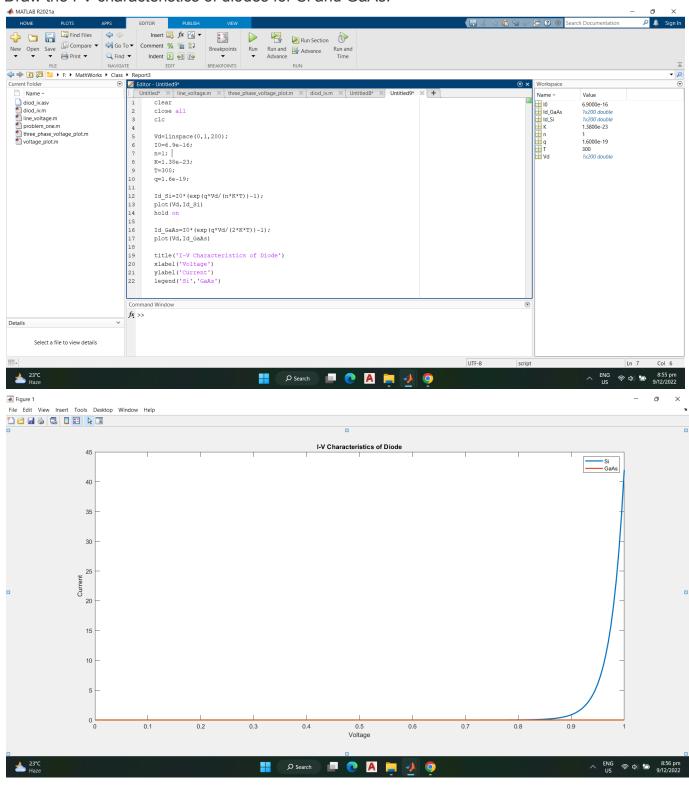
Consider a simple series R-L-C. Assume we applied AC voltage. V= a sin(2*pi*f*t + theta) Take the value of a, f, theta as user input. Write a MATLAB code to determine the sinusoidal input voltage and series current.





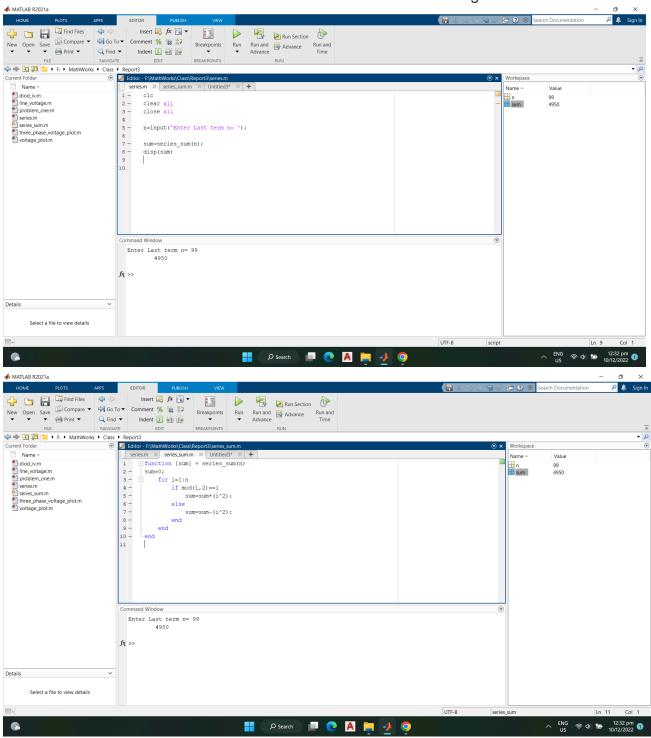
Problem 4:

Draw the I-V characteristics of diodes for Si and GaAs.



Problem 5:

Write a MATLAB function that determine the summation of following series.



Problem 6:

Write a program to compute the variance of an array x.

