

ASSIGNMENT 1(ARRAYS)

1. Create 2D array using
 - a. Direct Entry
 - b. Colon Entry
2. Add a number to an elements taking
 - a. sine of an elements,
 - b. transpose of a matrix.
3. Showcase following operations on array
 - a. element wise Multiplication
 - b. element wise Division
 - c. element wise Exponential
 - d. Concatenation of arrays
 - i. Horizontally
 - ii. Vertically
 - e. Matrix Multiplication
4. Calculate:
 - a. Inverse of an array
 - b. Determinant of array
 - c. Rank of an array
 - d. Size of an array
5. Create following array:
 - a. 3x5 array of all zeros
 - b. 4x7 array of ones
 - c. 5x5 identity matrix
 - d. 3x3 diagonal matrix
 - e. 3x5 matrix of random numbers
 - f. 4x6 matrix of random numbers in range 10 to 100
 - g. Magic matrix
6. Create an array with size of array and elements of array entered by user.
7. Create a 4x3 array of complex numbers.
8. Create a cell array of 2x3.
9. Create a structure which contains student sid, name and age.
10. Create a 4x7 array and then select a subarray of size 2x3 staring in 2nd element of 2nd row.