

MATLAB Unit 3-Lecture 6

BTech (CSBS) -Semester VII

29 July 2022, 09:35AM



- 1) As the functions operate, how can we get an overall result for the matrix? Determine the overall maximum in the matrix?
- 2) Find the cumulative matrix from (1).
- 3) For vector v with a length n, diff(v) will be n-1. Create a random integer matrix and find difference on each coloumn.
- 4) Create a matrix of all 10's.
- 5) Create a vector variable and substract 3 from every element.

Lecture 6



Question

- 6) Create a matrix variable and divide every element by 3.
- 7) Create a matrix variable and square every element.
- 8) You are provided with following vector

Error: Array indices must be positive integers or logical values.

Define this error and give correction for it



- 9) Find logical true or false of vec from (8), for value greater than 9
- 10) Find same for value less than 9
- 11) Assume a vector *vec* that erronouesly stores negative values, how can we elliminate those negative values?
- 12) With same *vec* from (11), using 'find' command and logical operators, instead of deleting negative values, retain only the positive values only.

Lecture 6



Question

13) When two matrix have same dimension and are square, both array and matrix multiplication can be performed on them. For the following two matrices, perform A.*B, A*B and B*A.

$$A = \begin{bmatrix} 1 & 4 \\ 3 & 3 \end{bmatrix} \text{ and } B = \begin{bmatrix} 1 & 2 \\ -1 & 0 \end{bmatrix}$$