

We can use octave or octave online or Matlab for this course.

Sim Matlab - code run karate

Matlab - calculation karate matrix form - store karate, ~~ans~~

Example: $5+5$; code ke result '10'
 # ans - matlab variable - by default save

If we write $a = 5+5$; then $10 \rightarrow$ a variable
 - save karate

matlab code - variable set na karate matlab
 matlab ans matlab variable - save karate

Matrix

Example 1: matrix - row aur column
 matlab code karate
 matrix ke $A (row, column)$

Range batate hain

$A (1:5, 1:3)$ row 1 to 5, column 1 to 3

row and column range kore nishchay:

$$A(:, 1:3)$$

row column and row range kore nishchay:

$$A(1:4, :)$$

shudhu 1 ta column ~~nishchay~~ and row:

$$A(:, 4:4)$$

$$\text{or } A(:, 4)$$

1 ta new matrix - ta and another matrix - ta

shudhu append kore

$$B = [A(:, 1:3) \quad A(:, 4)]$$

shudhu same A matrix - ta and another matrix - ta

append kore shudhu

$$B = [A(:, 1:3) \quad A(:, 4)]$$

A matrix - ta 1 to 3 column and row and shudhu 4th column

A matrix - ta 1 to 3 column and row

shudhu 1 ta column - ta value half kore shudhu

$$B(:, 4) \times 0.5$$

$$B = [B(:, 1:3) \quad B(:, 4) \times 0.5]$$

→ ta shudhu 1 to 3 ta column change shudhu
shudhu na just 4th column change shudhu

$B = A$] A, B to copy (full matrix copy)

શ્રેણી બનાવ

$X = [1 \ 2 \ ; \ 3 \ 4];$
→ Output શ્રેણી

$X =$ 1 2
 3 4

$Y = [5 \ 6 \ ; \ 7 \ 8];$
→ Output શ્રેણી

$Y =$ 5 6
 7 8

append x, y → કિ ઉપર સ્થાને ઉપર

$[x \ y]$ → column wise append શ્રેણી

અંતિમ $(1 \ 1) \ 2 \ (5 \ ; \ 6)$

3 4 7 8

$[x : y] \rightarrow$ row wise append kr

ans =

1	2
3	4
5	6
7	8

Sum (A(3, :)) :

\rightarrow Hm kham A matrix - up 3rd row - up
us column - us value sum
mat kr result of ans
variable - 6 store krkr

Average kr kr:

row wise average :

$a = [\text{mean}(A(1, :)); \text{mean}(A(2, :)); \dots]$

or

$\begin{bmatrix} \text{mean}(A, 1) \\ \text{mean}(A, 2) \\ \vdots \end{bmatrix}$

\rightarrow iskrkr row wise mean
kr kr kr

column wise average: $\left[\begin{matrix} 13 & 8 \end{matrix} \right]$

↳ mean(A)

by default it column wise
average - it result gives

clerk ~~to~~ → code write + ৬ জন প্রশাসনিক কাজ দিবে

clear → Workspace एमर्गि (होस्ट) में मूव

`fprint ('\\n')` → new line print

Heat = 1289643 ;

integer = 42;

fprintf(~~file~~ (real = '%.3f', integer = '%.d'));

Q72. Formate
specifiers use ~~with~~ with