Hae E... 3

Substitution

$$M_1 = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$$
 $M_2 = \begin{bmatrix} 10 & 20 \\ 30 & 40 \end{bmatrix}$

$$M_1 + M_2 = \begin{bmatrix} 11 & 22 \\ 33 & 44 \end{bmatrix}$$

Row major
$$M_1 = [[1,2],[3,4]]$$

 $M_2 = [[10,20],[30,40]]$

Column major
$$M_1 = [[1, 3], [2, 4]]$$

 $M_2 = [[10, 30], [20, 40]]$

DICTIONARY Vegetables, Batata Kange. Rate Card Idli Sambor Masala Dosa ____345 Grocery List Batata Kaandar -Bhindi 0.5Kg -

Dictionaries allow efficient data retrieval.

library ["Premchand"] Proth operations take approx.

library ["Dickens"] the same time to

[(authorst.,...), (author2,...)]

Average lime to aven the books of a author

X length of the library list

How? - Hashing / Hash table.

Data Types en our Arsenal Int Float String Boolean List

Inples Dictionary.

TUPLES

VLISTS -- Sequences of elements. - Variable length **Roll number - Sequences - elements. - Fined Cength - Immutable elements

Why tuple?

with locked doors that you can't do with a house without doors?

- NOTHING!

Stealing Vandalisation