1. Create a matrix with 2 rows and 3 columns and fill it with random numerical data.
2. Identify the data type of the matrix and calculate the mean, mode and median of the data.
3. Perform basic matrix operations (addition, subtraction, transpose, and scalar multiplication) on the matrix.
4. Research and find a real-world application of matrices in data analysis and explain how it is used.
5. Compare your results with the provided solutions and explain any discrepancies.
6. M1 2x3=

1. -the data type: numerical data(integer)

Mean (x̅) = Sum of Values / Number of Values

A.N: (1+2+3+4+2+6)/6=18/6=3=mean

-Mode =2=Highest Frequency Term

-Median = [(n + 1)/2]

= (6+1)/2=3,5=median

1. Addition M1+M2

+ =

Subtraction M1-M2

- =

Transpose M1

M1T =

Scalar multiplication

2M1= 2 x =

1. Une application des matrices dans la vie de tous les jours :

-En data science, les matrices sont utilisées pour stocker des données, on utilise les lignes et colonnes pour enregistrer des données.