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| **Practical Number** | 11 |
| **Areas covered** | Multi Dimensional Arrays |

1. Write a Python program that takes the dimensions (no. of rows and columns) as inputs from the user and create a 2D array based on those dimensions.
2. Write a Python program to declare two 3x3 square matrices and display the matrix sum.
3. Manually provide values for the values of the two matrices.
4. Prompt the user to get the values for the two matrices.

The following illustration shows the process of calculating the matrix sum. (The values are used as samples).

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | 2 | 4 | + | 2 | 6 | 3 | = | 5 | 8 | 7 |
| 1 | 4 | 6 | 4 | 3 | 2 | 5 | 7 | 8 |
| 4 | 3 | 2 | 5 | 1 | 7 | 9 | 4 | 9 |