

Lab 8: 2d arrays

Task 1: Initialization and Input

- Write a program to declare a 2D array of size 3x3 and initialize it with user input.
- Print the array in matrix form (row by row).

Sample Output

```
Enter elements for a 3x3 matrix:
1 2 3
4 5 6
7 8 9
```

```
Matrix:
1 2 3
4 5 6
7 8 9
```

Task 2: Matrix Addition

- Implement a program to add two 3x3 matrices.
- Take both matrices as input and display the resulting matrix.

Sample Output

```
Enter elements for Matrix 1:
Row 1: 1 2 3
Row 2: 4 5 6
Row 3: 7 8 9
```

```
Enter elements for Matrix 2:
Row 1: 9 8 7
Row 2: 6 5 4
Row 3: 3 2 1
```

```
Result Matrix:
10 10 10
10 10 10
10 10 10
```

Task 3: Use 2d char array to store names and display them

Sample Output

```
Enter 1 Name: name1
Enter 2 Name: name2
Enter 3 Name: name3
-----
name1
name2
name3
```