

30-Day C Language Learning Plan

Day 13: Arrays - 2D

1. Matrix addition
2. Matrix multiplication

ARRAY :- 2D array is like a table with rows & columns.
Useful for working with matrices, grids / table like data

Notes:

① Syntax :- data-type arrayName[rows][columns];
int a[2][3]; (2 rows 3 columns).

② Initializing a 2D array :-

int a[2][3] = { {1, 2, 3},
 {4, 5, 6} };
or int a[2][3]
 = {1, 2, 3, 4, 5, 6};

③ Taking input from the user :-

```
for (int i = 0; i < 2; i++) {  
    for (int j = 0; j < 3; j++) {  
        printf("%d ", a[i][j]);  
    }
```

```
    printf("\n"); (new line  
                    after each  
                    row)  
}
```