main.c

Share Run

```c
//DAY 38
//Q75
#include <stdio.h>
int main() {
    int rows, cols, i, j;
    printf("Enter number of rows: ");
    scanf("%d", &rows);
    printf("Enter number of columns: ");
    scanf("%d", &cols);
    int A[rows][cols], B[rows][cols], Sum[rows][cols];
    printf("\nEnter elements of first matrix (A):\n");
    for (i = 0; i < rows; i++) {
        for (j = 0; j < cols; j++) {
            printf("A[%d][%d]: ", i, j);
            scanf("%d", &A[i][j]);
        }
    }
    printf("\nEnter elements of second matrix (B):\n");
    for (i = 0; i < rows; i++) {
        for (j = 0; j < cols; j++) {
            printf("B[%d][%d]: ", i, j);
            scanf("%d", &B[i][j]);
        }
    }
    for (i = 0; i < rows; i++) {
        for (j = 0; j < cols; j++) {
            Sum[i][j] = A[i][j] + B[i][j];
        }
    }
    printf("\nResultant matrix after addition (A + B):\n");
    for (i = 0; i < rows; i++) {
        for (j = 0; j < cols; j++) {
            printf("%d\t", Sum[i][j]);
        }
        printf("\n");
    }
    return 0;
```

Output

```
Enter number of rows: 2
Enter number of columns:
2

Enter elements of first matrix (A):
A[0][0]: 2
A[0][1]: 2
A[1][0]: 3
A[1][1]: 3

Enter elements of second matrix (B):
B[0][0]:

4
B[0][1]: 5
B[1][0]: 6
B[1][1]: 2

Resultant matrix after addition (A + B):
6   7
9   5


=== Code Execution Successful ===
```

main.c

Share Run

```c
//DAY 38
//Q76
#include <stdio.h>
int main() {
    int n, i, j, isSymmetric = 1;
    printf("Enter the size of the square matrix: ");
    scanf("%d", &n);
    int matrix[n][n];
    printf("Enter elements of the matrix:\n");
    for (i = 0; i < n; i++) {
        for (j = 0; j < n; j++) {
            printf("Element [%d][%d]: ", i, j);
            scanf("%d", &matrix[i][j]);
        }
    }
    for (i = 0; i < n; i++) {
        for (j = 0; j < n; j++) {
            if (matrix[i][j] != matrix[j][i]) {
                isSymmetric = 0;
                break;
            }
        }
        if (!isSymmetric)
            break;
    }
    printf("\nThe entered matrix is:\n");
    for (i = 0; i < n; i++) {
        for (j = 0; j < n; j++) {
            printf("%d\t", matrix[i][j]);
        }
        printf("\n");
    }
    if (isSymmetric)
        printf("The matrix is symmetric.\n");
    else
        printf("The matrix is not symmetric.\n");
    return 0;
```

Output

```
Enter the size of the square matrix: 2
Enter elements of the matrix:
Element [0][0]: 5
Element [0][1]: 3
Element [1][0]: 7
Element [1][1]: 8

The entered matrix is:
5   3
7   8
The matrix is not symmetric.


=== Code Execution Successful ===
```