



```
1 //DAY 36
2 //Q71
3 #include <stdio.h>
4 int main() {
5     int rows, cols;
6
7     printf("Enter number of rows: ");
8     scanf("%d", &rows);
9
10    printf("Enter number of columns: ");
11    scanf("%d", &cols);
12
13    int matrix[rows][cols];
14
15    printf("Enter elements of the matrix:\n");
16    for (int i = 0; i < rows; i++) {
17        for (int j = 0; j < cols; j++) {
18            printf("Enter element [%d][%d]: ", i, j);
19            scanf("%d", &matrix[i][j]);
20        }
21    }
22    printf("\nThe entered matrix is:\n");
23    for (int i = 0; i < rows; i++) {
24        for (int j = 0; j < cols; j++) {
25            printf("%d\t", matrix[i][j]);
26        }
27        printf("\n");
28    }
29    return 0;
```

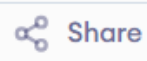
Enter number of rows: 3
Enter number of columns: 2
Enter elements of the matrix:
Enter element [0][0]: 2
Enter element [0][1]: 2
Enter element [1][0]: 1
Enter element [1][1]: 2
Enter element [2][0]: 3
Enter element [2][1]: 4

The entered matrix is:

```
2  2
1  2
3  4
```

=== Code Execution Successful ===

main.c



Run

Output

```
1 //DAY 36
2 //Q72
3 #include <stdio.h>
4 int main() {
5     int rows, cols, i, j;
6     int sum = 0;
7
8     printf("Enter number of rows: ");
9     scanf("%d", &rows);
10
11     printf("Enter number of columns: ");
12     scanf("%d", &cols);
13
14     int matrix[rows][cols];
15
16     printf("Enter elements of the matrix:\n");
17     for (i = 0; i < rows; i++) {
18         for (j = 0; j < cols; j++) {
19             printf("Enter element [%d][%d]: ", i, j);
20             scanf("%d", &matrix[i][j]);
21         }
22     }
23     for (i = 0; i < rows; i++) {
24         for (j = 0; j < cols; j++) {
25             sum += matrix[i][j];
26         }
27     }
28     printf("\nThe sum of all elements in the matrix is: %d\n", sum);
29     return 0;
30 }
```

Enter number of rows: 2
Enter number of columns: 2
Enter elements of the matrix:
Enter element [0][0]: 3
Enter element [0][1]: 5
Enter element [1][0]: 2
Enter element [1][1]: 5

The sum of all elements in the matrix is: 15

=== Code Execution Successful ===

VirtualBox Virtual Machine