

```
1 //2. Write a C Program to find the sum of two matrices using function.
2
3 #include<stdio.h>
4 void matrixadd(int matrix1[][10], int matrix2[][10], int matrix3[][10], int m, int n){
5     int i,j,row,col;
6     for(i=0;i<m;i++){
7         for(j=0;j<n;j++){
8             matrix3[i][j]= matrix1[i][j]+matrix2[i][j];
9         }
10    }
11 }
12
13
14 int main(){
15     int matrix1[10][10], matrix2[10][10], matrix3[10][10], row, col, i, j;
16
17     printf("Enter number of rows : ");
18     scanf("%d",&row);
19
20     printf("Enter number of columns : ");
21     scanf("%d",&col);
22
23
24     printf("\nEnter the elements of the 1st matrix: ");
25     for(i=0;i<row;i++){
26         for(j=0;j<col;j++){
27             printf("\nmatrix1[%d][%d]=",i,j);
28             scanf("%d",&matrix1[i][j]);
29         }
30     }
31
32     printf("\nEnter the elements of the 2nd matrix: ");
33     for(i=0;i<row;i++){
34         for(j=0;j<col;j++){
35             printf("\nmatrix2[%d][%d]=",i,j);
36             scanf("%d",&matrix2[i][j]);
37         }
38     }
39
40     matrixadd(matrix1,matrix2,matrix3,row,col);
41
42     printf("\nThe sum of the two matrices:\n");
43     for(i=0;i<row;i++){
44         for(j=0;j<col;j++){
45             printf("%3d",matrix3[i][j]);
46         }
47         printf("\n");
48     }
49
50
51     return 0;
52 }
```