```
#include <stdio.h>
   int main() {
       int rows, cols;
8
       printf("Enter number of rows and columns: ");
       scanf("%d %d", &rows, &cols);
       int a[10][10], b[10][10], sum[10][10];
2
3
4
       printf("\nEnter elements of first matrix:\n");
5
6
7
8
9
0
1
2
3
4
5
6
       for (int i = 0; i < rows; i++) {
           for (int j = 0; j < cols; j++) {
                printf("a[%d][%d] = ", i, j);
                scanf("%d", &a[i][j]);
           }
       }
       printf("\nEnter elements of second matrix:\n");
       for (int i = 0; i < rows; i++) {
           for (int j = 0; j < cols; j++) {
                printf("b[%d][%d] = ", i, j);
```

```
24 -
25 -
26
27
28
29
30
31
32 -
33
34
35
        for (int i = 0; i < rows; i++) {
             for (int j = 0; j < cols; j++) {
                  printf("b[%d][%d] = ", i, j);
                  scanf("%d", &b[i][j]);
             }
        }
        for (int i = 0; i < rows; i++) {
             for (int j = 0; j < cols; j++) {
                  sum[i][j] = a[i][j] + b[i][j];
             }
         }
38
39
        printf("\nResultant Matrix (Sum):\n");
10 -
        for (int i = 0; i < rows; i++) {
11 -
12
13
14
15
16
             for (int j = 0; j < cols; j++) {
                  printf("%d\t", sum[i][j]);
             printf("\n");
         }
         return 0;
```

```
Enter number of rows and columns: 3
3
Enter elements of first matrix:
a[0][0] = 1
a[0][1] = 2
a[0][2] = 3
a[1][0] = 4
a[1][1] = 5
a[1][2] = 6
a[2][0] = 7
a[2][1] = 8
a[2][2] = 9
Enter elements of second matrix:
b[0][0] = 1
b[0][1] = 2
b[0][2] = 3
b[1][0] = 4
b[1][1] = 5
b[1][2] = 6
b[2][0] =
7
b[2][1] = 8
b[2][2] = 9
```

```
b[1][2] = 6

b[2][0] =

7

b[2][1] = 8

b[2][2] = 9

Resultant Matrix (Sum):

2  4  6

8  10  12

14  16  18
```