```c
/*
    AIM: WAP to calculate sum of two matrix.
  Name: Salmani Asad Anwarul
   UIN: 241A010
   DIV: A
   DEPTT.: AI&DS
   ROLL-NO: 10
   */


  #include<stdio.h>

  int main () {
       int rows, cols, i, j;

      printf("Enter the number of rows and columns: ");
       scanf("%d %d", &rows, &cols);

     // Declare two matrices and a result matrix
       int matrix1[rows][cols], matrix2[rows][cols], sum[rows][cols];

     // Input elements of the first matrix
       printf("Enter elements of the first matrix:\n");
       for (i = 0; i < rows; i++) {
           for (j = 0; j < cols; j++) {
               scanf("%d", &matrix1[i][j]);
           }
       }

      // Input elements of the second matrix
       printf("Enter elements of the second matrix:\n");
       for (i = 0; i < rows; i++) {
           for (j = 0; j < cols; j++) {
               scanf("%d", &matrix2[i][j]);
           }
       }

      // Calculate the sum of the two matrices
       for (i = 0; i < rows; i++) {
           for (j = 0; j < cols; j++) {
               sum[i][j] = matrix1[i][j] + matrix2[i][j];
           }
       }

      // Output the result
       printf("Sum of the two matrices is:\n");
      for (i = 0; i < rows; i++) {
           for (j = 0; j < cols; j++) {
               printf("%d ", sum[i][j]);
           }
           printf("\n");
       }

      return 0;
   }

  /*
   OUTPUT
   Enter the number of rows and columns: 3
3
Enter elements of the first matrix:
1
2
3
4
5
6
7
8
9
Enter elements of the second matrix:
9
8
7
6
5
4
3
```

```
2
1
Sum of the two matrices is:
10 10 10
10 10 10
10 10 10
    */

```