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1  /*
2      AIM: WAP to calculate sum of two matrix.
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5      DIV: A
6      DEPTT.: AI&DS
7      ROLL-NO: 10
8      */
9
10
11  #include<stdio.h>
12
13  int main () {
14      int rows, cols, i, j;
15
16      printf("Enter the number of rows and columns: ");
17      scanf("%d %d", &rows, &cols);
18
19      // Declare two matrices and a result matrix
20      int matrix1[rows][cols], matrix2[rows][cols], sum[rows][cols];
21
22      // Input elements of the first matrix
23      printf("Enter elements of the first matrix:\n");
24      for (i = 0; i < rows; i++) {
25          for (j = 0; j < cols; j++) {
26              scanf("%d", &matrix1[i][j]);
27          }
28      }
29
30      // Input elements of the second matrix
31      printf("Enter elements of the second matrix:\n");
32      for (i = 0; i < rows; i++) {
33          for (j = 0; j < cols; j++) {
34              scanf("%d", &matrix2[i][j]);
35          }
36      }
37
38      // Calculate the sum of the two matrices
39      for (i = 0; i < rows; i++) {
40          for (j = 0; j < cols; j++) {
41              sum[i][j] = matrix1[i][j] + matrix2[i][j];
42          }
43      }
44
45      // Output the result
46      printf("Sum of the two matrices is:\n");
47      for (i = 0; i < rows; i++) {
48          for (j = 0; j < cols; j++) {
49              printf("%d ", sum[i][j]);
50          }
51          printf("\n");
52      }
53
54      return 0;
55  }
56
57  /*
58      OUTPUT
59      Enter the number of rows and columns: 3
60      3
61      Enter elements of the first matrix:
62      1
63      2
64      3
65      4
66      5
67      6
68      7
69      8
70      9
71      Enter elements of the second matrix:
72      9
73      8
74      7
75      6
76      5
77      4
78      3

```

```
79  2
80  1
81  Sum of the two matrices is:
82  10 10 10
83  10 10 10
84  10 10 10
85      */
86
```