

WAP TO multiply two matrices

```
1. #include <stdio.h>
2.
3. int main()
4. {
5.     int m, n, p, q, c, d, k, sum = 0;
6.     int first[10][10], second[10][10], multiply[10][10];
7.
8.     printf("Enter the number of rows and columns of first
matrix\n");
9.     scanf("%d%d", &m, &n);
10.    printf("Enter the elements of first matrix\n");
11.
12.    for ( c = 0 ; c < m ; c++ )
13.        for ( d = 0 ; d < n ; d++ )
14.            scanf("%d", &first[c][d]);
15.
16.    printf("Enter the number of rows and columns of second
matrix\n");
17.    scanf("%d%d", &p, &q);
18.
19.    if ( n != p )
20.        printf("Matrices with entered orders can't be
multiplied with each other.\n");
21.    else
22.    {
23.        printf("Enter the elements of second matrix\n");
24.
25.        for ( c = 0 ; c < p ; c++ )
26.            for ( d = 0 ; d < q ; d++ )
27.                scanf("%d", &second[c][d]);
28.
29.        for ( c = 0 ; c < m ; c++ )
30.        {
31.            for ( d = 0 ; d < q ; d++ )
32.            {
33.                for ( k = 0 ; k < p ; k++ )
34.                {
35.                    sum = sum + first[c][k]*second[k][d];
36.                }
37.
38.                multiply[c][d] = sum;
39.                sum = 0;
40.            }
41.        }
42.
43.        printf("Product of entered matrices:-\n");
44.
45.        for ( c = 0 ; c < m ; c++ )
46.        {
47.            for ( d = 0 ; d < q ; d++ )
48.                printf("%d\t", multiply[c][d]);
49.
50.            printf("\n");
51.        }
52.    }
53.
54.    return 0;
55. }
```