

```

#include <stdio.h>
#include <stdlib.h>

int main()
{
    int r,c,a[100][100],b[100][100],mul[100][100],k,l,m;
    system("cls");

    //User Inputs the Number of Rows and Columns
    printf("enter the number of row=");
    scanf("%d",&r);
    printf("enter the number of column=");
    scanf("%d",&c);
    printf("enter the first matrix element=\n");
    for(k=0;k<r;k++) {
        for(l=0;l<c;l++) {
            scanf("%d",&a[k][l]);
        }
    }
    printf("enter the second matrix element=\n");
    for(k=0;k<r;k++) {
        for(l=0;l<c;l++) {
            scanf("%d",&b[k][l]);
        }
    }
    printf("multiply of the matrix=\n");
    for(k=0;k<r;k++) {
        for(l=0;l<c;l++) {
            mul[k][l]=0;
            for(m=0;m<c;m++) {
                mul[k][l]+=a[k][m]*b[l][m];
            }
        }
    }
    //for printing result
    for(k=0;k<r;k++) {
        for(l=0;l<c;l++) {
            printf("%d\t",mul[k][l]);
        }
        printf("\n");
    }
    return 0;
}

```