```c
1: #include<stdio.h>
2: #include<stdlib.h>
3: int main(){
4: int a[10][10],b[10][10],mul[10][10],r,c,i,j,k;
5: system("cls");
6: printf("enter the number of row=");
7: scanf("%d",&r);
8: printf("enter the number of column=");
9: scanf("%d",&c);
10: printf("enter the matrix1element=\n");
11: for(i=0;i<r;i++)
12: {
13: for(j=0;j<c;j++)
14: {
15: scanf("%d",&a[i][j]);
16: }
17: }
18: printf("enter the matrix2 element=\n");
19: for(i=0;i<r;i++)
20: {
21: for(j=0;j<c;j++)
22: {
23: scanf("%d",&b[i][j]);
24: }
25: }
26: printf("multiply of the matrix=\n");
27: for(i=0;i<r;i++)
28: {
29: for(j=0;j<c;j++)
30: {
31: mul[i][j]=0;
32: for(k=0;k<c;k++)
33: {
34: mul[i][j]+=a[i][k]*b[k][j];
35: }
36: }
37: }
38: for(i=0;i<r;i++)
39: {
40: for(j=0;j<c;j++)
41: {
42: printf("%d\t",mul[i][j]);
43: }
44: printf("\n");
45: }
46: return 0;
47: }
```