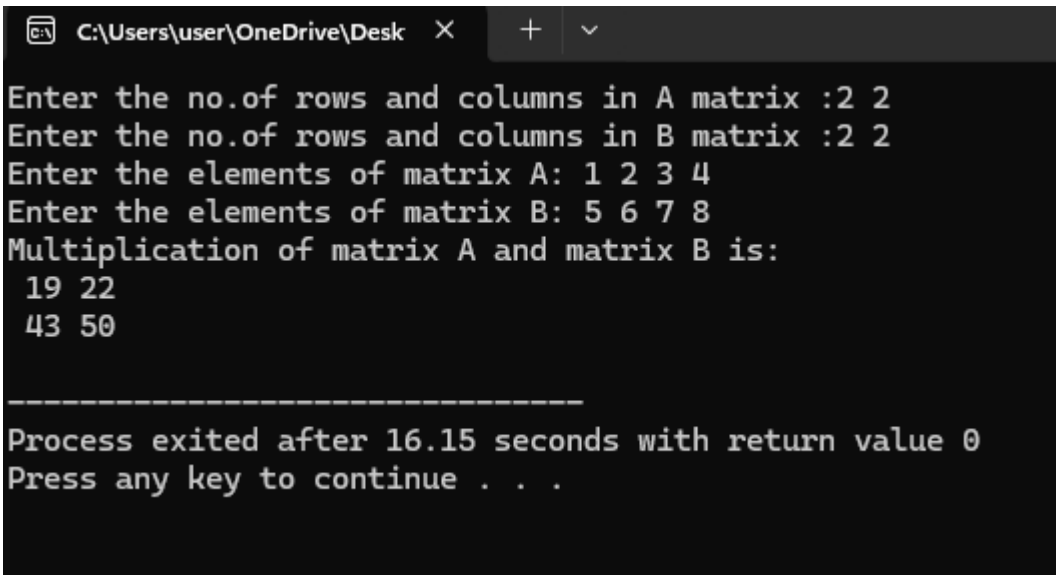
```c
#include <stdio.h>
int main()
{
	int A[10][10],B[10][10],C[10][10];
	int m,n,p,q,i,j,k;
	printf("Enter the no.of rows and columns in A matrix :");
	scanf("%d%d",&m,&n);
	printf("Enter the no.of rows and columns in B matrix :");
	scanf("%d%d",&p,&q);
	if (n != p) {
		printf("Multiplication is not possible for matrix A and B.");
	}
	printf("Enter the elements of matrix A: ");
	for (i=0;i<m;i++) {
		for (j=0;j<n;j++) {
			scanf("%d",&A[i][j]);
		}
	}
	printf("Enter the elements of matrix B: ");
	for (i=0;i<p;i++) {
		for (j=0;j<q;j++) {
			scanf("%d",&B[i][j]);
		}
	}
	for (i=0;i<m;i++) {
		for (j=0;j<q;j++) {
			C[i][j] = 0;
		}
	}
	for (i=0;i<m;i++) {
		for (j=0;j<q;j++) {
			for (k=0;k<n;k++) {
				C[i][j] += A[i][k]*B[k][j];
			}
		}
	}
	printf("Multiplication of matrix A and matrix B is: \n");
	for (i=0;i<m;i++) {
		for (j=0;j<q;j++) {
			printf(" %d",C[i][j]);
		}
		printf("\n");
	}
	return 0;
}
```


C:\Users\user\OneDrive\Desk
Enter the no.of rows and columns in A matrix :2 2
Enter the no.of rows and columns in B matrix :2 2
Enter the elements of matrix A: 1 2 3 4
Enter the elements of matrix B: 5 6 7 8
Multiplication of matrix A and matrix B is:
19 22
43 50

Process exited after 16.15 seconds with return value 0
Press any key to continue . . .