

```
//MATRIX MULTIPLICATION

#include<stdio.h>

#include<stdlib.h>

int main()

{

int a[10][10],b[10][10],mul[10][10],r,c,i,j,k;

system("cls");

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(i=0;i<r;i++)

{

for(j=0;j<c;j++)

{

scanf("%d",&a[i][j]);

}

}

printf("enter the second matrix element=\n");

for(i=0;i<r;i++)

{

for(j=0;j<c;j++)

{

scanf("%d",&b[i][j]);

}

}

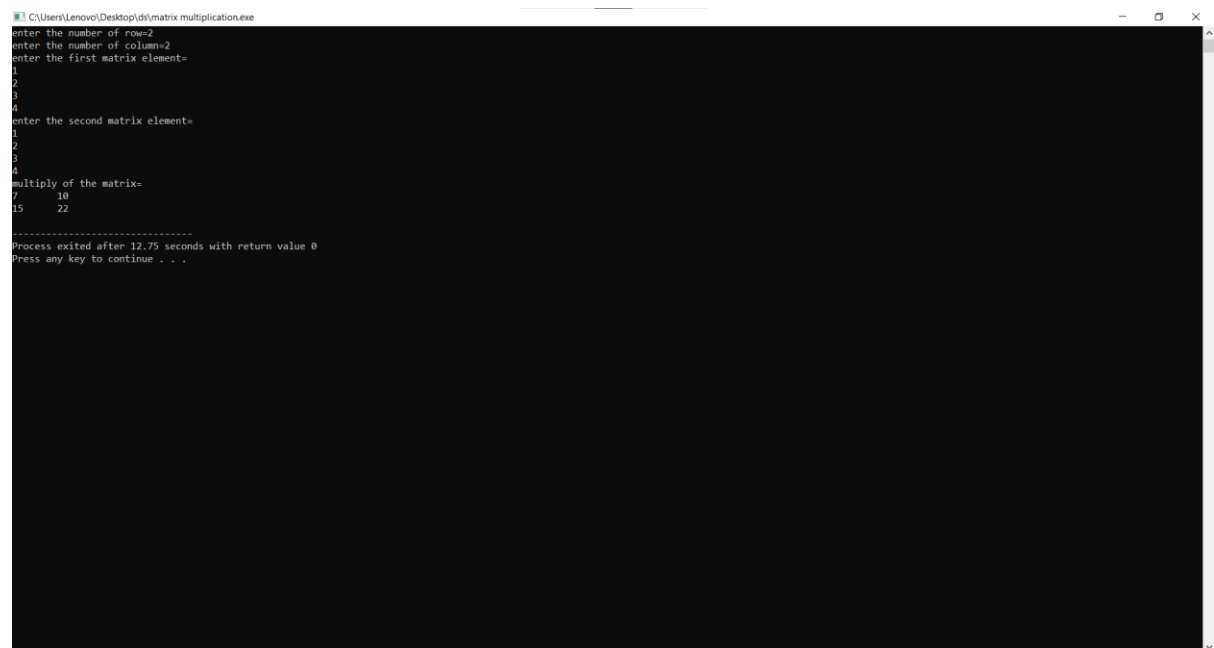
printf("multiply of the matrix=\n");

for(i=0;i<r;i++)

{

for(j=0;j<c;j++)
```

```
{  
mul[i][j]=0;  
for(k=0;k<c;k++)  
{  
mul[i][j]+=a[i][k]*b[k][j];  
}  
}  
}  
for(i=0;i<r;i++)  
{  
for(j=0;j<c;j++)  
{  
printf("%d\t",mul[i][j]);  
}  
printf("\n");  
}  
return 0;  
}
```



```
C:\Users\Lenovo\Desktop\ds\matrix multiplication.exe  
enter the number of row=2  
enter the number of column=2  
enter the first matrix element=  
1  
2  
3  
4  
enter the second matrix element=  
1  
2  
3  
4  
multiply of the matrix=  
7 10  
15 22  
-----  
Process exited after 12.75 seconds with return value 0  
Press any key to continue . . .
```