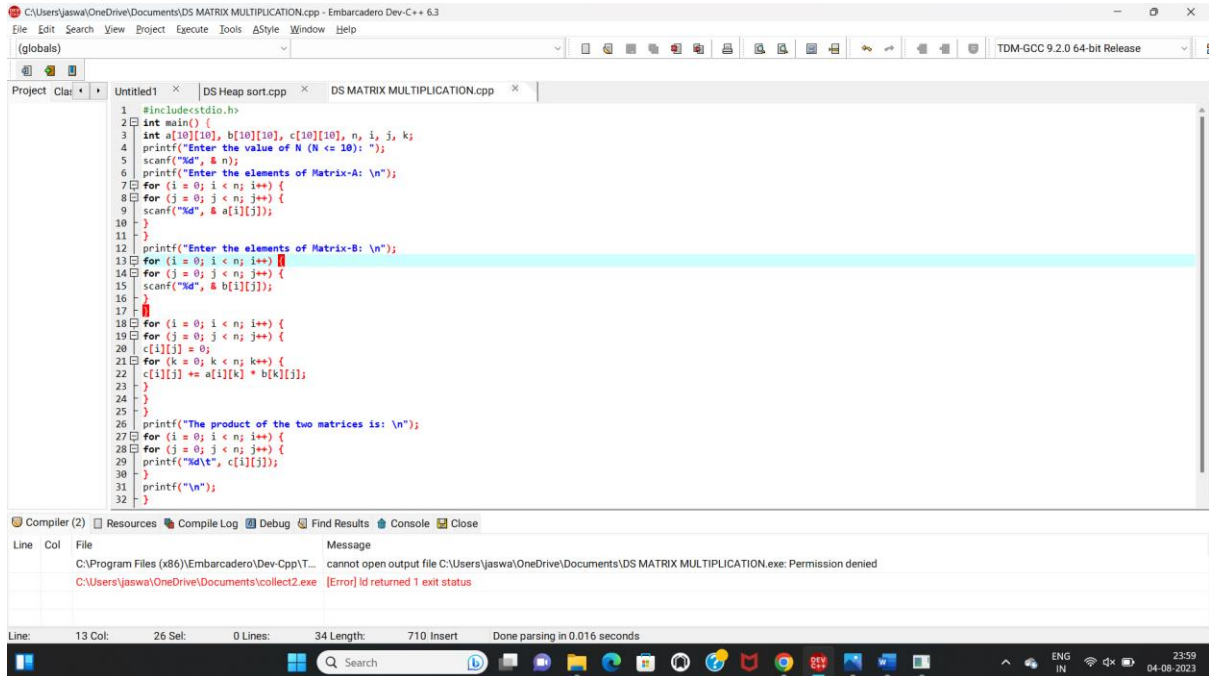


DS MATRIX MULTIPLICATION



```
1 #include<stdio.h>
2 int main() {
3     int a[10][10], b[10][10], c[10][10], n, i, j, k;
4     printf("Enter the value of N (N <= 10): ");
5     scanf("%d", &n);
6     printf("Enter the elements of Matrix-A: \n");
7     for (i = 0; i < n; i++) {
8         for (j = 0; j < n; j++) {
9             scanf("%d", &a[i][j]);
10        }
11    }
12    printf("Enter the elements of Matrix-B: \n");
13    for (i = 0; i < n; i++) {
14        for (j = 0; j < n; j++) {
15            scanf("%d", &b[i][j]);
16        }
17    }
18    for (i = 0; i < n; i++) {
19        for (j = 0; j < n; j++) {
20            c[i][j] = 0;
21            for (k = 0; k < n; k++) {
22                c[i][j] += a[i][k] * b[k][j];
23            }
24        }
25    }
26    printf("The product of the two matrices is: \n");
27    for (i = 0; i < n; i++) {
28        for (j = 0; j < n; j++) {
29            printf("%d\t", c[i][j]);
30        }
31        printf("\n");
32    }
33 }
```

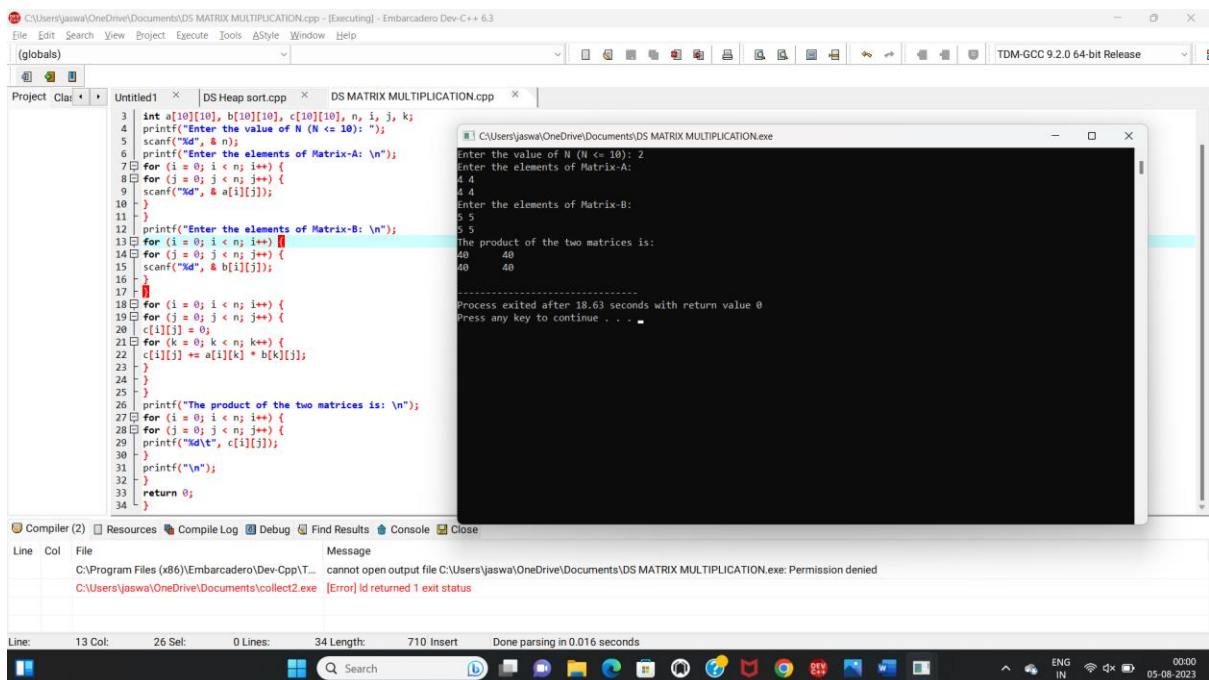
Compiler (2) Resources Compile Log Debug Find Results Console Close

Line Col File Message

C:\Program Files (x86)\Embarcadero\Dev-Cpp\T... cannot open output file C:\Users\jaswa\OneDrive\Documents\DS MATRIX MULTIPLICATION.exe: Permission denied

C:\Users\jaswa\OneDrive\Documents\collect2.exe [Error] ld returned 1 exit status

Line: 13 Col: 26 Sel: 0 Lines: 34 Length: 710 Insert Done parsing in 0.016 seconds



```
3 int a[10][10], b[10][10], c[10][10], n, i, j, k;
4 printf("Enter the value of N (N <= 10): ");
5 scanf("%d", &n);
6 printf("Enter the elements of Matrix-A: \n");
7 for (i = 0; i < n; i++) {
8     for (j = 0; j < n; j++) {
9         scanf("%d", &a[i][j]);
10    }
11 }
12 printf("Enter the elements of Matrix-B: \n");
13 for (i = 0; i < n; i++) {
14     for (j = 0; j < n; j++) {
15         scanf("%d", &b[i][j]);
16     }
17 }
18 for (i = 0; i < n; i++) {
19     for (j = 0; j < n; j++) {
20         c[i][j] = 0;
21         for (k = 0; k < n; k++) {
22             c[i][j] += a[i][k] * b[k][j];
23         }
24     }
25 }
26 printf("The product of the two matrices is: \n");
27 for (i = 0; i < n; i++) {
28     for (j = 0; j < n; j++) {
29         printf("%d\t", c[i][j]);
30     }
31     printf("\n");
32 }
33 return 0;
34 }
```

Compiler (2) Resources Compile Log Debug Find Results Console Close

Line Col File Message

C:\Program Files (x86)\Embarcadero\Dev-Cpp\T... cannot open output file C:\Users\jaswa\OneDrive\Documents\DS MATRIX MULTIPLICATION.exe: Permission denied

C:\Users\jaswa\OneDrive\Documents\collect2.exe [Error] ld returned 1 exit status

Line: 13 Col: 26 Sel: 0 Lines: 34 Length: 710 Insert Done parsing in 0.016 seconds

Enter the value of N (N <= 10): 2
Enter the elements of Matrix-A:
1 4
4 4
Enter the elements of Matrix-B:
3 5
5 5
The product of the two matrices is:
40 40
40 40
.....
Process exited after 18.63 seconds with return value 0
Press any key to continue . . .