

Welcome C C PROGRAMING PROJECT .c #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     int a[10][10], r, c, i, j;
5
6     printf("Enter rows and columns: ");
7     scanf("%d %d", &r, &c);
8
9     printf("Enter elements:\n");
10    for (i = 0; i < r; i++)
11        for (j = 0; j < c; j++)
12            scanf("%d", &a[i][j]);
13
14    printf("Matrix:\n");
15    for (i = 0; i < r; i++) {
16        for (j = 0; j < c; j++)
17            printf("%d ", a[i][j]);
18        printf("\n");
19    }
20
21    return 0;
22 }
23
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Code + - □ □ ... | [] ×

```
cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
● rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
Enter rows and columns: 2 3
Enter elements:
1 2 3 4 5 6
Matrix:
1 2 3
4 5 6
○ rajatsingh@Rajats-MacBook-Air ~ %
```

WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
1  #include <stdio.h>
2
3  int main() {
4      int a[10][10], r, c, i, j, sum = 0;
5
6      printf("Enter rows and columns: ");
7      scanf("%d %d", &r, &c);
8
9      printf("Enter elements:\n");
10     for (i = 0; i < r; i++)
11         for (j = 0; j < c; j++)
12             scanf("%d", &a[i][j]);
13
14     for (i = 0; i < r; i++)
15         for (j = 0; j < c; j++)
16             sum += a[i][j];
17
18     printf("Sum of elements: %d\n", sum);
19     return 0;
20 }
21
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + - [] [X] [Y] [Z] [W] [V] [U] [T] [S] [R] [Q] [P] [O] [N] [M] [L] [K] [J] [I] [H] [G] [F] [E] [D] [C] [B] [A]

```
cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
Enter rows and columns: 2 3
Enter elements:
1 2 3 4 5 6
Sum of elements: 21
rajatsingh@Rajats-MacBook-Air ~ %
```

WelcomeC C PROGRAMING PROJECT .c#include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     int r, c, i, j;
5     printf("Enter rows and columns: ");
6     scanf("%d %d", &r, &c);
7
8     int a[r][c], rowSum[r];
9
10    printf("Enter matrix:\n");
11    for(i = 0; i < r; i++) {
12        rowSum[i] = 0;
13        for(j = 0; j < c; j++) {
14            scanf("%d", &a[i][j]);
15            rowSum[i] += a[i][j];
16        }
17    }
18
19    printf("Row Sum Array:\n");
20    for(i = 0; i < r; i++)
21        printf("%d ", rowSum[i]);
22
23    return 0;
24 }
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + - [] [] ... | [] x

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
Enter rows and columns: 3 3
Enter matrix:
1 2 3 4 5 6 7 8 9
Row Sum Array:
6 15 24
rajatsingh@Rajats-MacBook-Air ~ %

123456789101112131415161718192021222324252627

```
#include <stdio.h>

int main() {
    int r, c, i, j;
    printf("Enter rows and columns: ");
    scanf("%d %d", &r, &c);

    int a[r][c], t[c][r];

    printf("Enter matrix:\n");
    for(i = 0; i < r; i++)
        for(j = 0; j < c; j++)
            scanf("%d", &a[i][j]);

    for(i = 0; i < r; i++)
        for(j = 0; j < c; j++)
            t[j][i] = a[i][j];

    printf("Transpose:\n");
    for(i = 0; i < c; i++) {
        for(j = 0; j < r; j++)
            printf("%d ", t[i][j]);
        printf("\n");
    }

    return 0;
}
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + - [] [] ... | {} X

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
● rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
Enter rows and columns: 2 3
Enter matrix:
1 2 3 4 5 6
Transpose:
1 4
2 5
3 6
○ rajatsingh@Rajats-MacBook-Air ~ %

WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     int n, i, j, flag = 1;
5     printf("Enter size of square matrix: ");
6     scanf("%d", &n);
7
8     int a[n][n];
9
10    printf("Enter matrix:\n");
11    for(i = 0; i < n; i++)
12        for(j = 0; j < n; j++)
13            scanf("%d", &a[i][j]);
14
15    for(i = 0; i < n; i++)
16        for(j = 0; j < n; j++)
17            if(a[i][j] != a[j][i])
18                flag = 0;
19
20    if(flag)
21        printf("Matrix is Symmetric");
22    else
23        printf("Matrix is NOT Symmetric");
24
25    return 0;
26 }
27
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + -

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile

● rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile

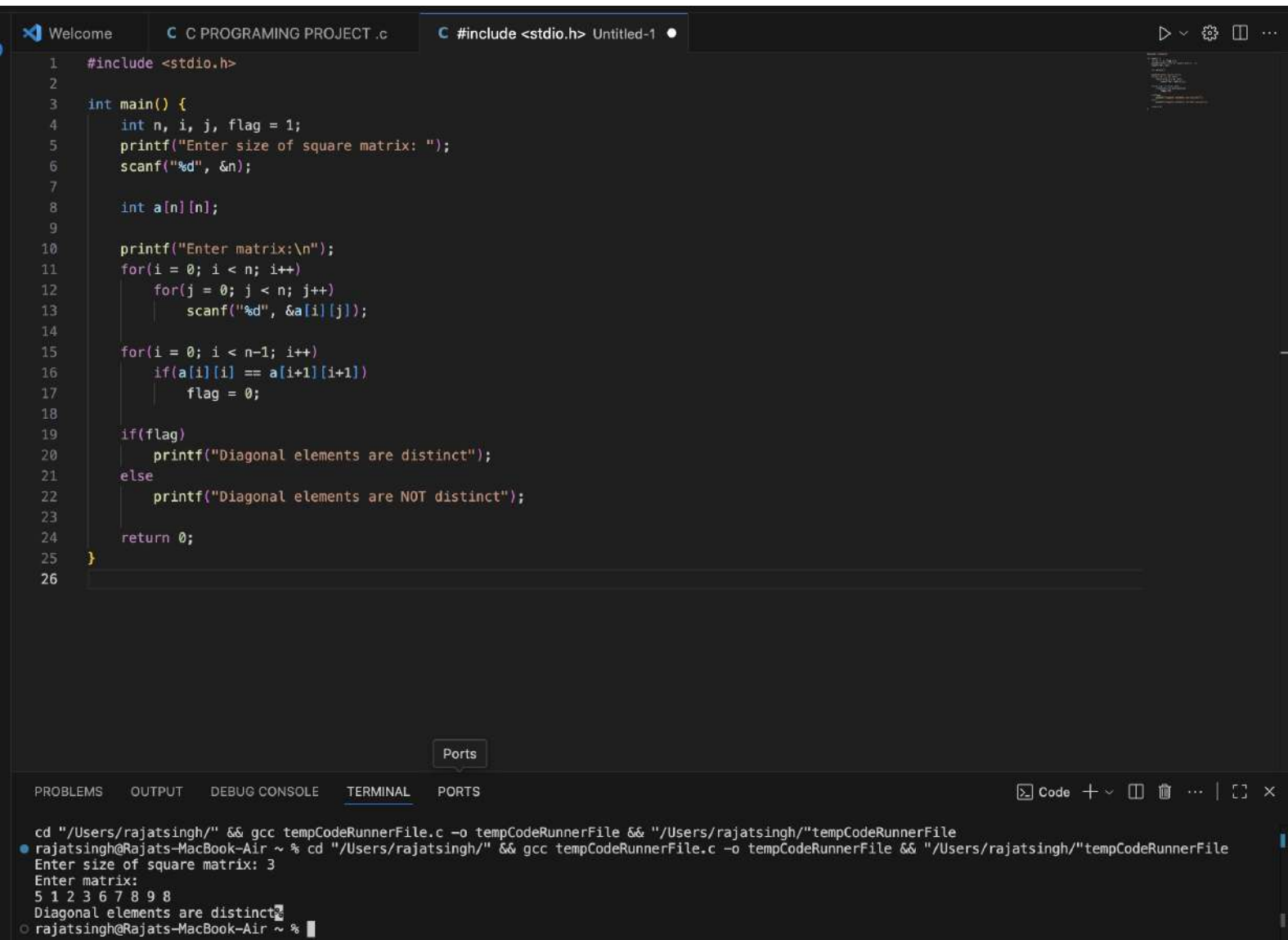
Enter size of square matrix: 3

Enter matrix:

1 2 3 2 5 6 3 6 9

Matrix is Symmetric

○ rajatsingh@Rajats-MacBook-Air ~ %



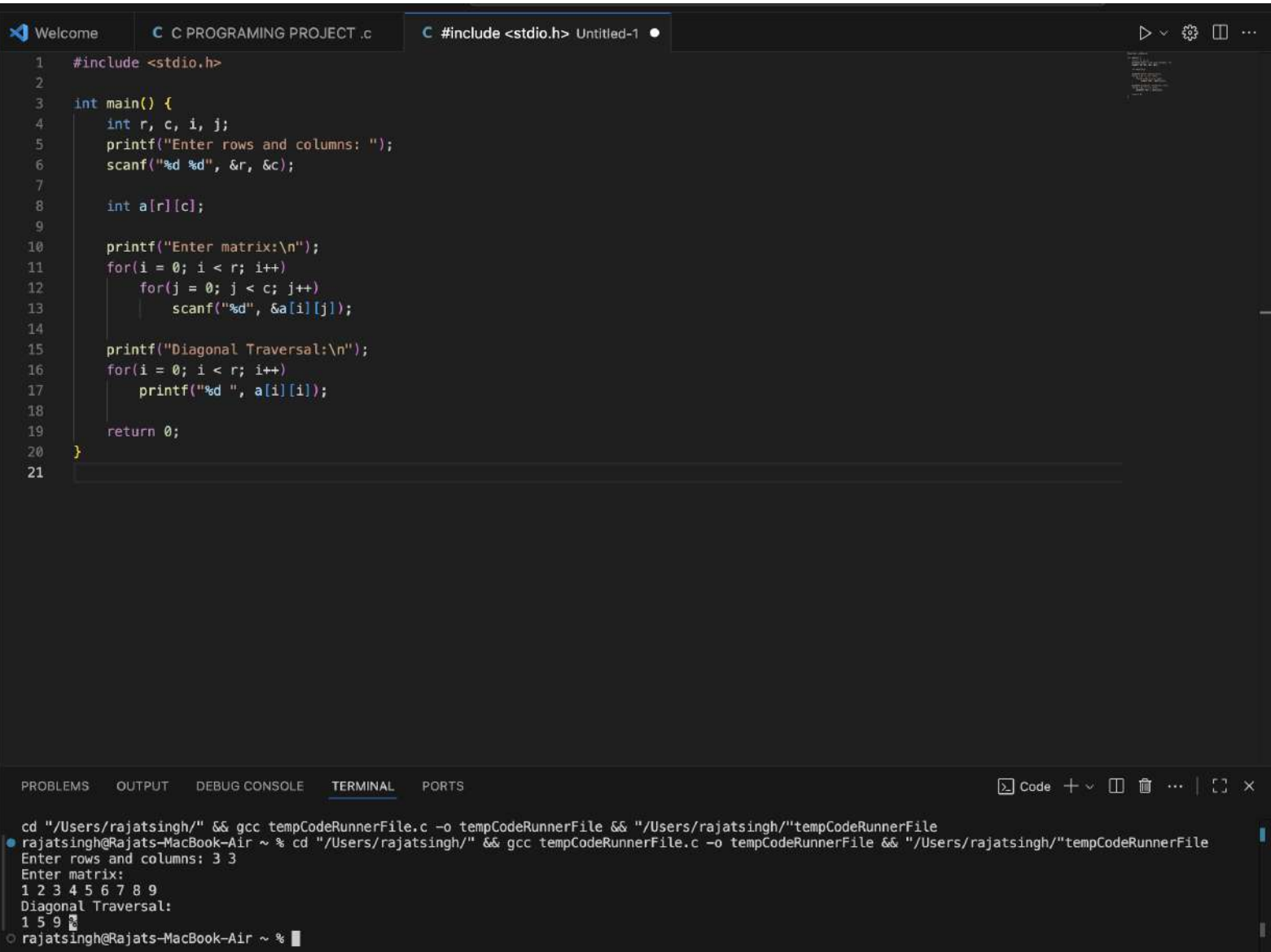
WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     int n, i, j, sum = 0;
5     printf("Enter size of square matrix: ");
6     scanf("%d", &n);
7
8     int a[n][n];
9
10    printf("Enter matrix:\n");
11    for(i = 0; i < n; i++)
12        for(j = 0; j < n; j++)
13            scanf("%d", &a[i][j]);
14
15    for(i = 0; i < n; i++)
16        sum += a[i][i];
17
18    printf("Sum of diagonal = %d", sum);
19    return 0;
20 }
21
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + - [] [] ... | [?] X

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
● rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
Enter size of square matrix: 3
Enter matrix:
1 2 3 4 5 6 7 8 9
Sum of diagonal = 15
○ rajatsingh@Rajats-MacBook-Air ~ %



WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     int r1, c1, r2, c2, i, j, k;
5
6     printf("Enter rows and columns of Matrix A: ");
7     scanf("%d %d", &r1, &c1);
8     printf("Enter rows and columns of Matrix B: ");
9     scanf("%d %d", &r2, &c2);
10
11     if(c1 != r2) {
12         printf("Matrix multiplication NOT possible.");
13         return 0;
14     }
15
16     int a[r1][c1], b[r2][c2], m[r1][c2];
17
18     printf("Enter Matrix A:\n");
19     for(i = 0; i < r1; i++)
20         for(j = 0; j < c1; j++)
21             scanf("%d", &a[i][j]);
22
23     printf("Enter Matrix B:\n");
24     for(i = 0; i < r2; i++)
25         for(j = 0; j < c2; j++)
26             scanf("%d", &b[i][j]);
27
28     for(i = 0; i < r1; i++)
29         for(j = 0; j < c2; j++) {
30             m[i][j] = 0;
31             for(k = 0; k < c1; k++)
32                 m[i][j] += a[i][k] * b[k][j];
33         }
34
35     printf("Product Matrix:\n");
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

```
● rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
Enter rows and columns of Matrix A: 2 3
Enter rows and columns of Matrix B: 3 2
Enter Matrix A:
1 2 3 4 5 6
Enter Matrix B:
7 8 9 10 11 12
Product Matrix:
58 64
139 154
○ rajatsingh@Rajats-MacBook-Air ~ %
```