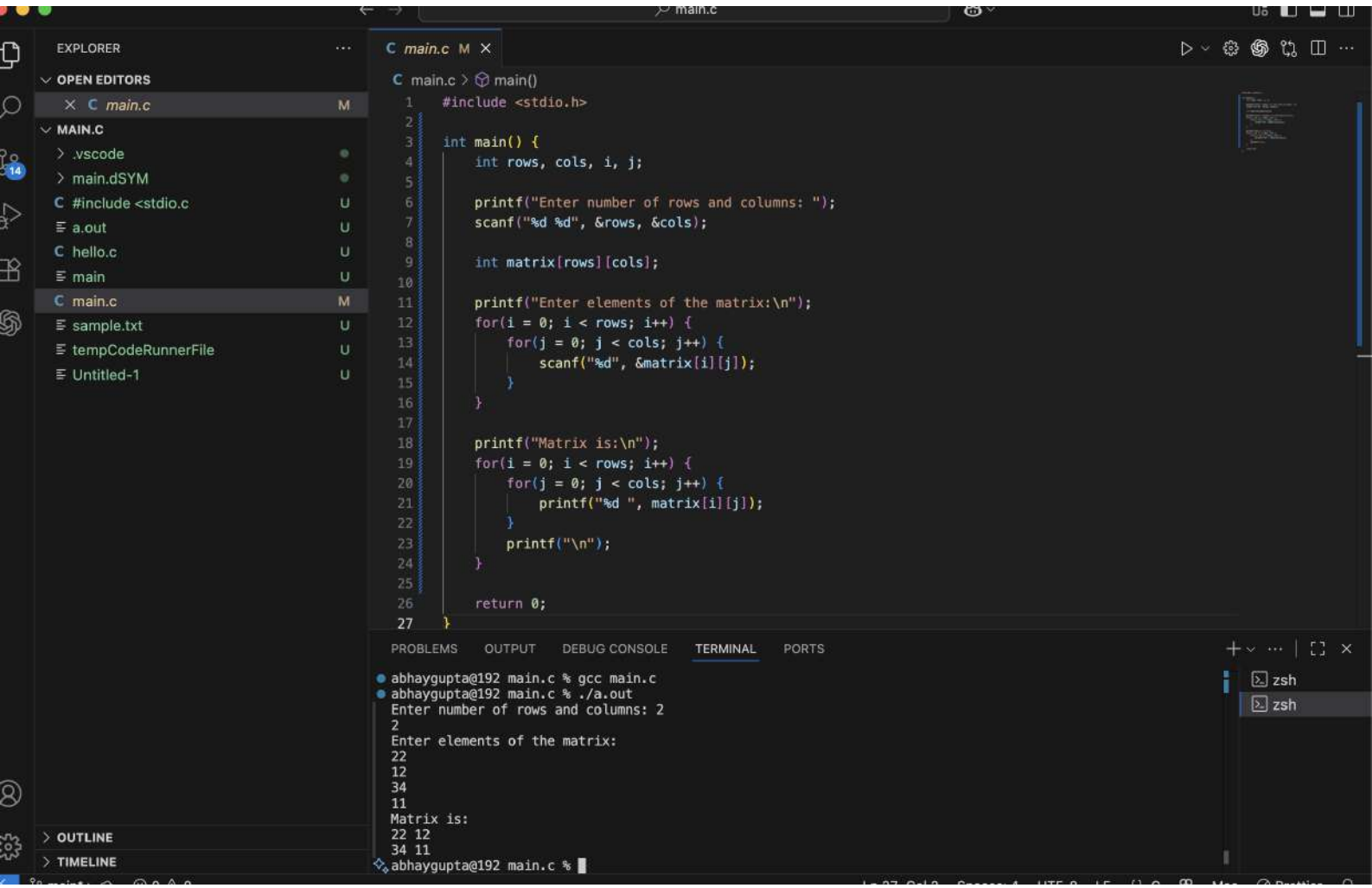
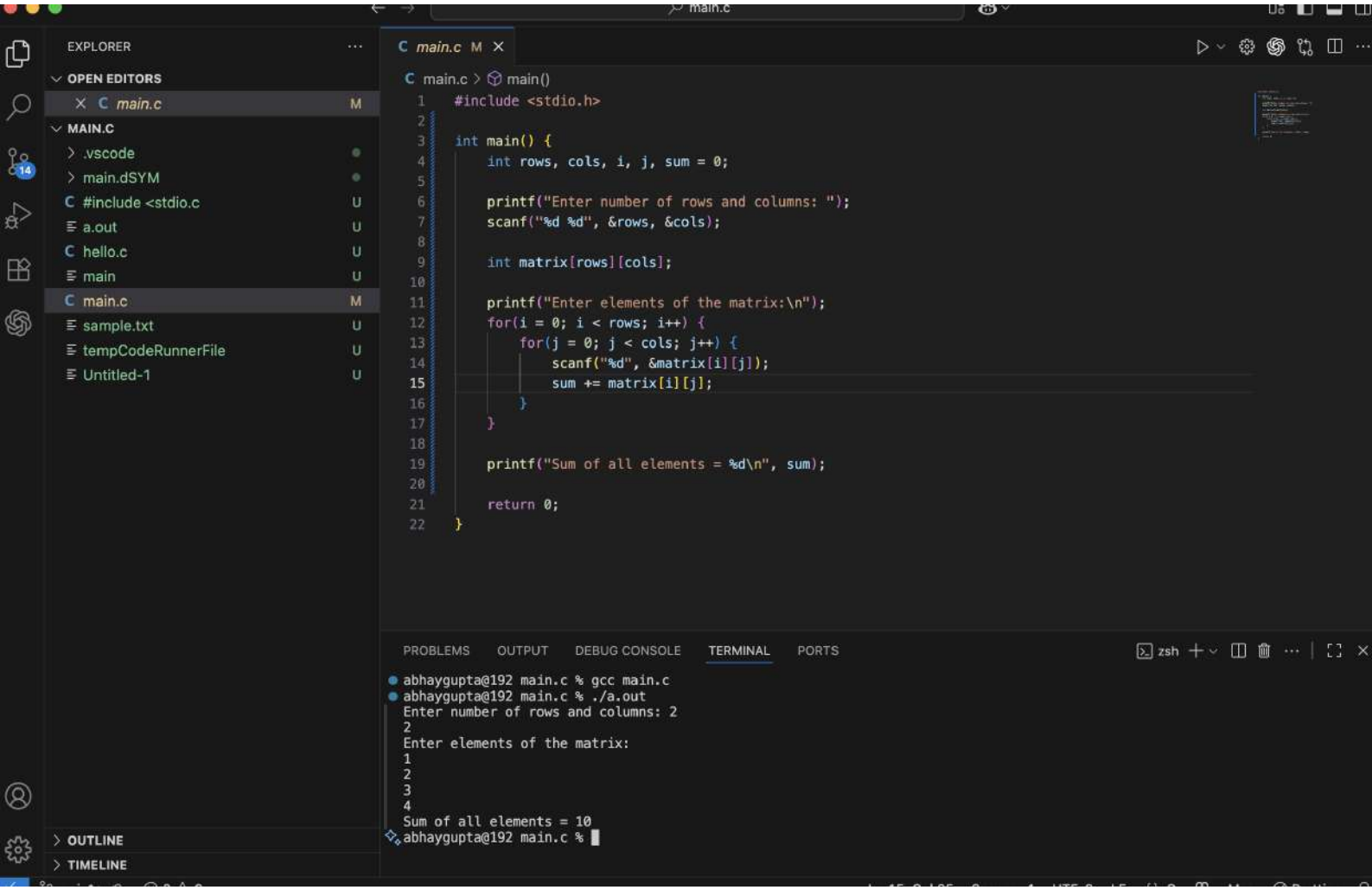
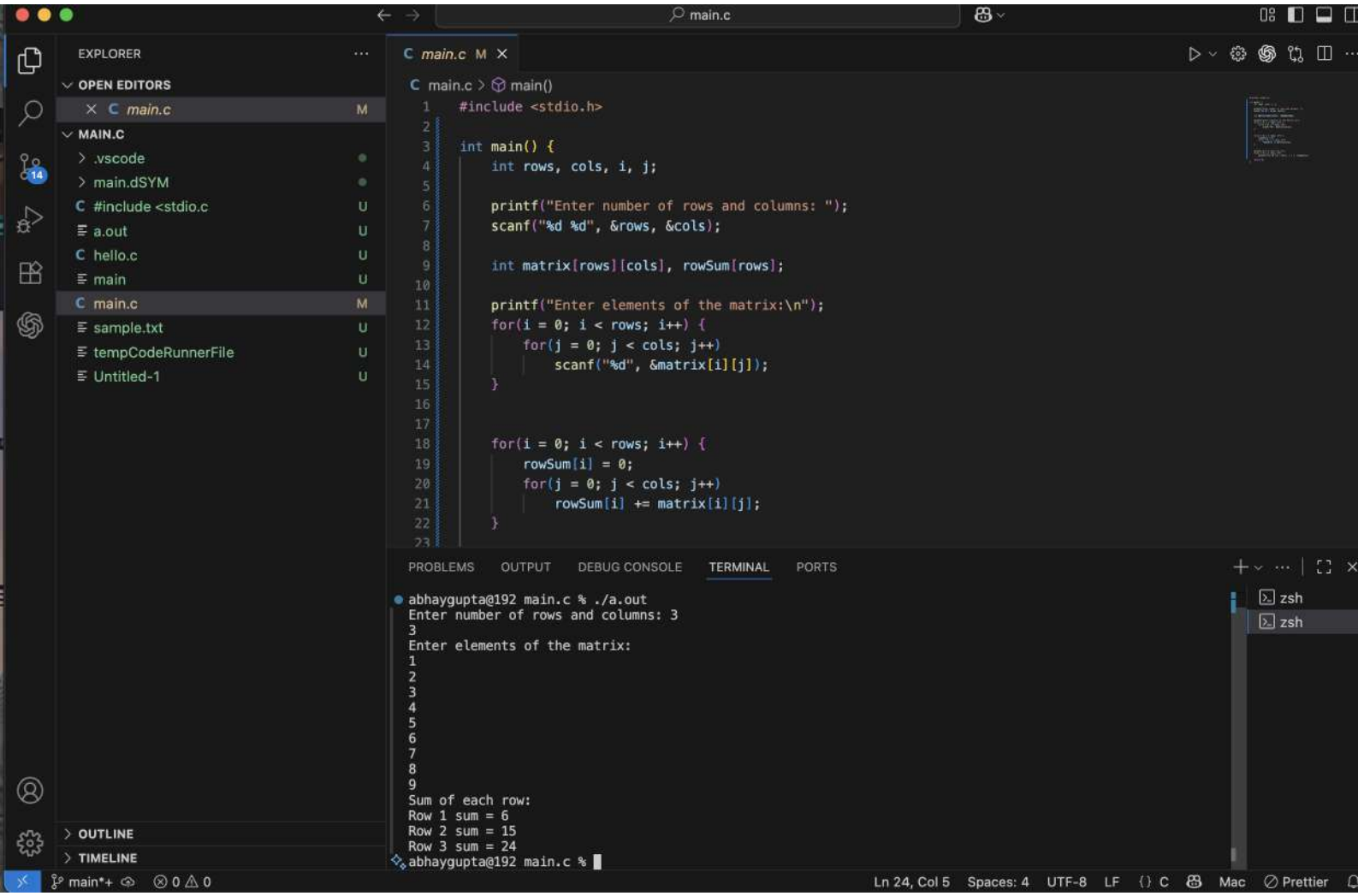
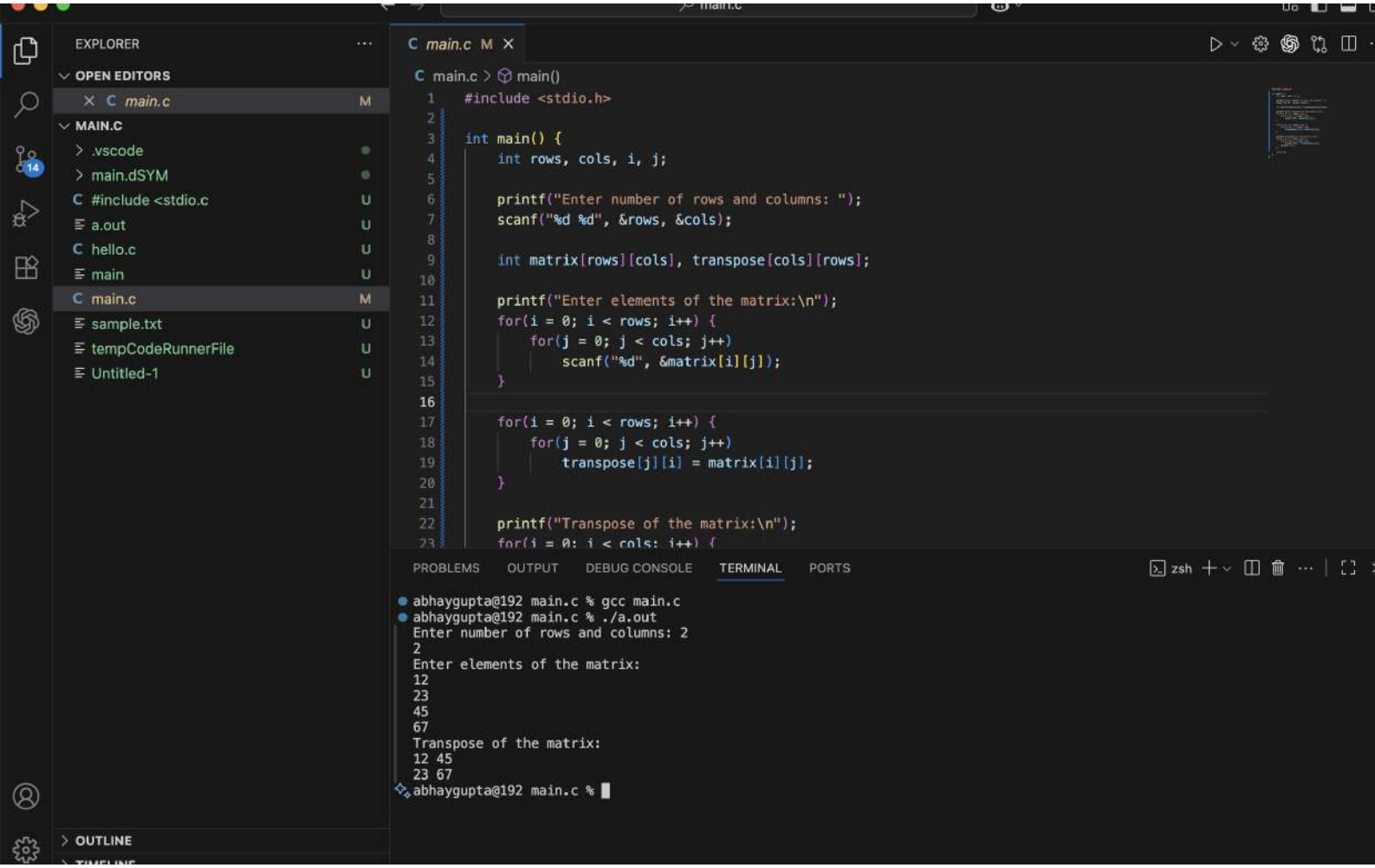
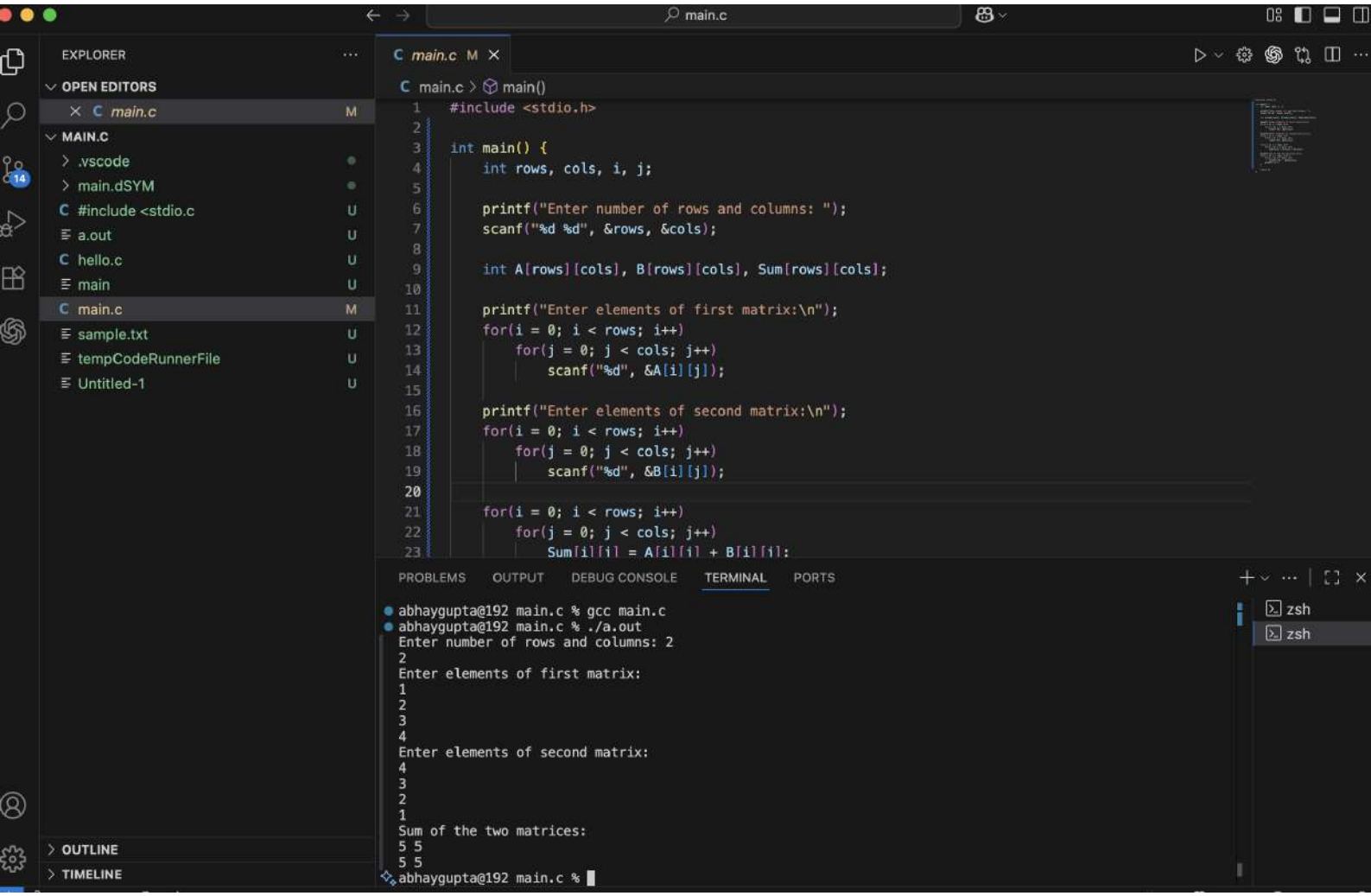
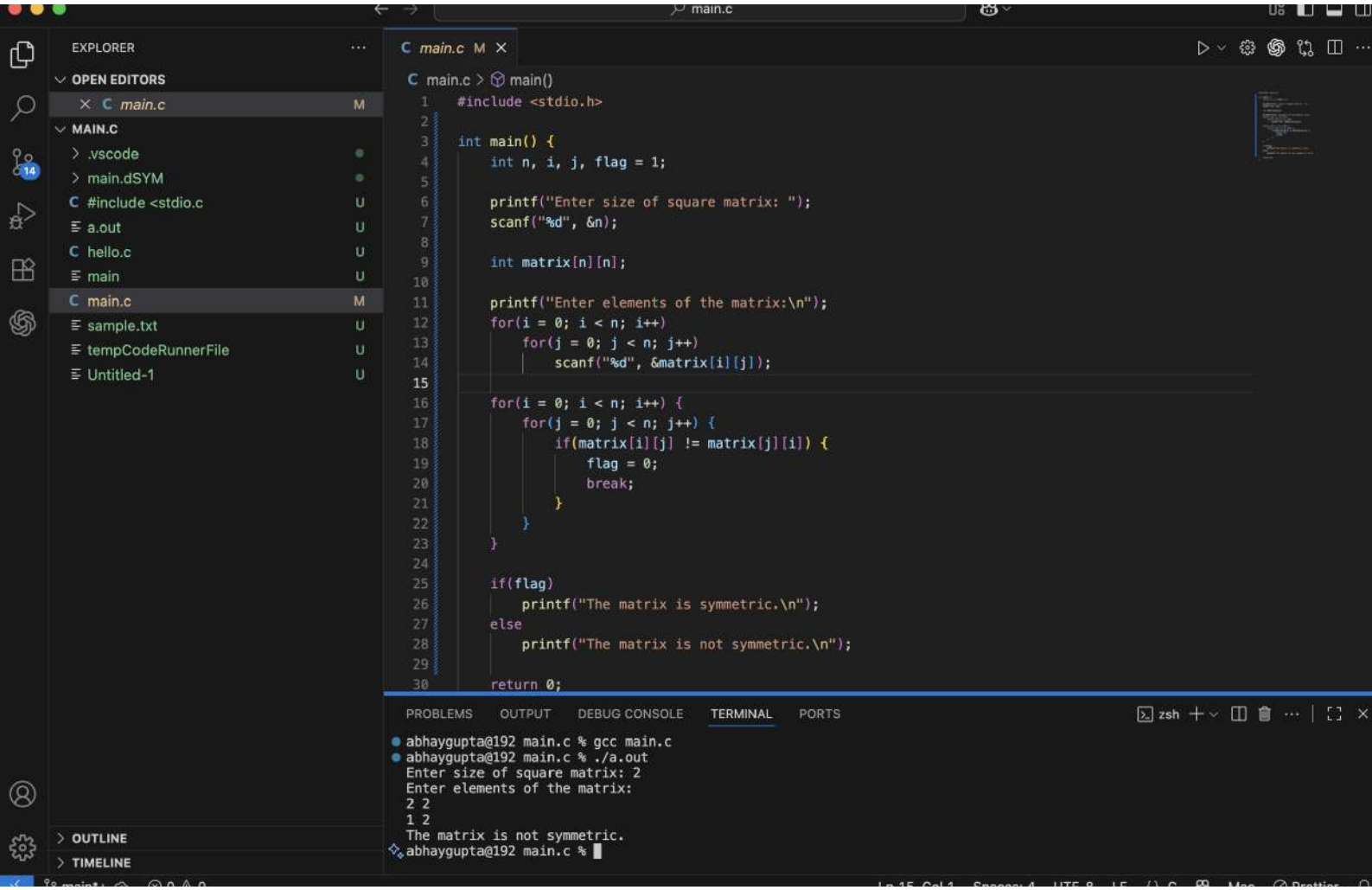

EXPLORER
OPEN EDITORS
main.c M
MAIN.C
.vscode
main.dSYM
#include <stdio.c U
a.out U
hello.c U
main U
main.c M
sample.txt U
tempCodeRunnerFile U
Untitled-1 U
OUTLINE
TIMELINE
main.c M
main.c > main()
#include <stdio.h>
int main() {
int rows, cols, i, j;
printf("Enter number of rows and columns: ");
scanf("%d %d", &rows, &cols);
int matrix[rows][cols];
printf("Enter elements of the matrix:\n");
for(i = 0; i < rows; i++) {
for(j = 0; j < cols; j++) {
scanf("%d", &matrix[i][j]);
}
}
printf("Matrix is:\n");
for(i = 0; i < rows; i++) {
for(j = 0; j < cols; j++) {
printf("%d ", matrix[i][j]);
}
printf("\n");
}
return 0;
}
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
abhaygupta@192 main.c % gcc main.c
abhaygupta@192 main.c % ./a.out
Enter number of rows and columns: 2
2
Enter elements of the matrix:
22
12
34
11
Matrix is:
22 12
34 11
abhaygupta@192 main.c %
zsh
zsh

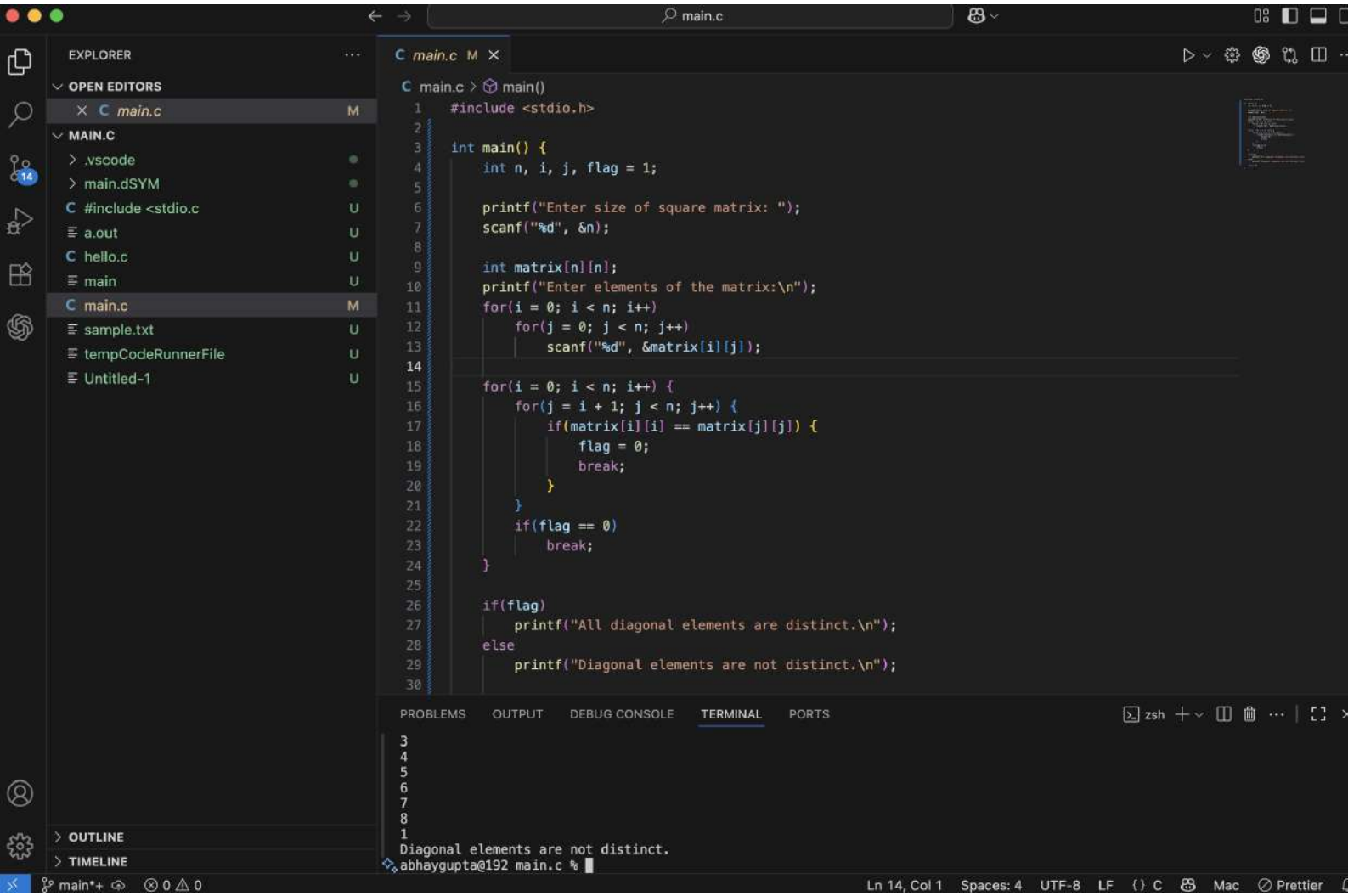

EXPLORER
OPEN EDITORS
main.c M
MAIN.C
.vscode
main.dSYM
#include <stdio.c U
a.out U
hello.c U
main U
main.c M
sample.txt U
tempCodeRunnerFile U
Untitled-1 U
OUTLINE
TIMELINE
main.c M
main.c > main()
#include <stdio.h>
int main() {
int rows, cols, i, j, sum = 0;
printf("Enter number of rows and columns: ");
scanf("%d %d", &rows, &cols);
int matrix[rows][cols];
printf("Enter elements of the matrix:\n");
for(i = 0; i < rows; i++) {
for(j = 0; j < cols; j++) {
scanf("%d", &matrix[i][j]);
sum += matrix[i][j];
}
}
printf("Sum of all elements = %d\n", sum);
return 0;
}
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
zsh
abhaygupta@192 main.c % gcc main.c
abhaygupta@192 main.c % ./a.out
Enter number of rows and columns: 2
2
Enter elements of the matrix:
1
2
3
4
Sum of all elements = 10
abhaygupta@192 main.c %

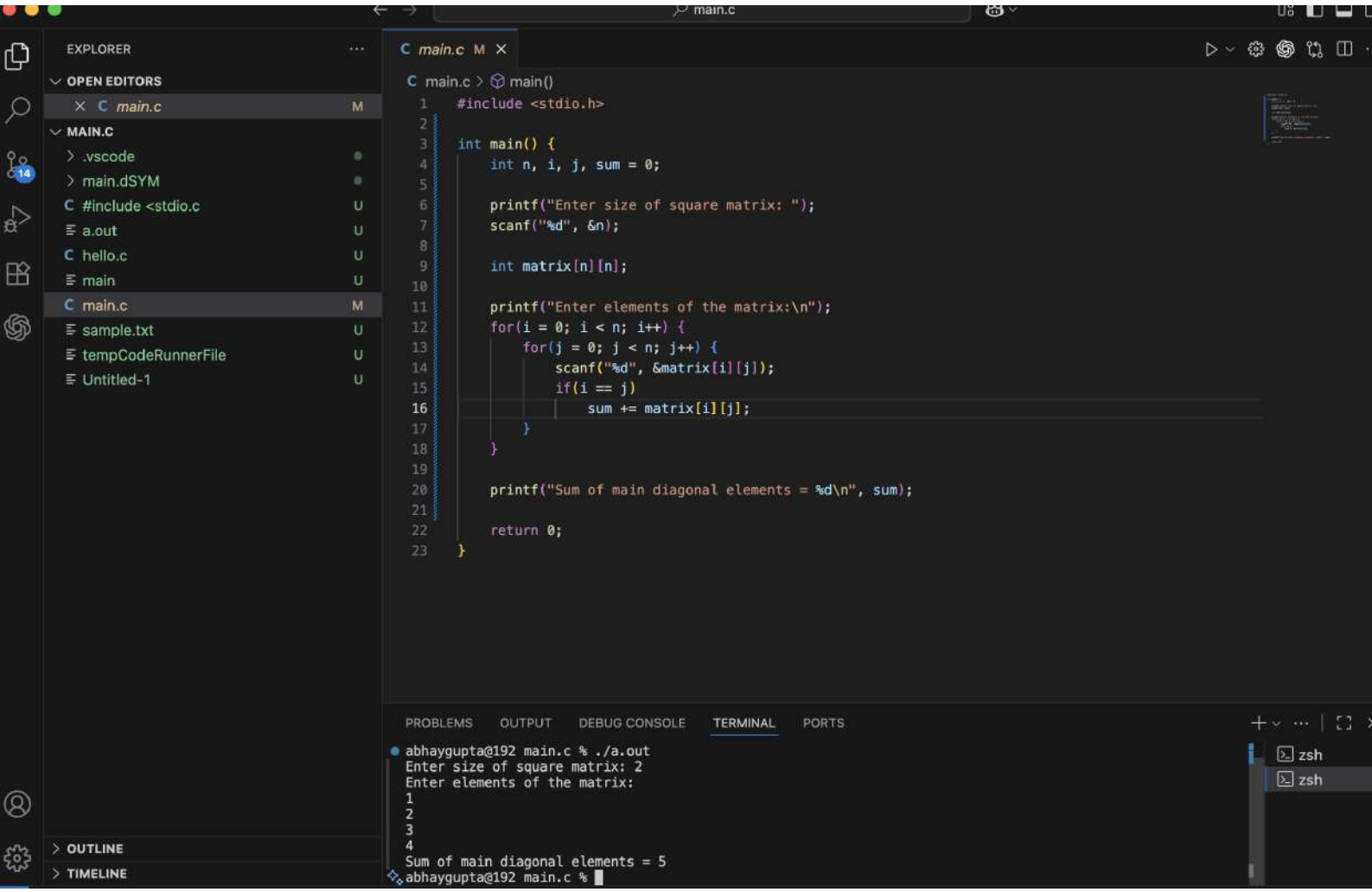

main.c
EXPLORER
OPEN EDITORS
main.c M
MAIN.C
.vscode
main.dSYM
#include <stdio.c U
a.out U
hello.c U
main U
main.c M
sample.txt U
tempCodeRunnerFile U
Untitled-1 U
OUTLINE
TIMELINE
main.c M
main.c > main()
#include <stdio.h>
int main() {
int rows, cols, i, j;
printf("Enter number of rows and columns: ");
scanf("%d %d", &rows, &cols);
int matrix[rows][cols], rowSum[rows];
printf("Enter elements of the matrix:\n");
for(i = 0; i < rows; i++) {
for(j = 0; j < cols; j++)
scanf("%d", &matrix[i][j]);
}
for(i = 0; i < rows; i++) {
rowSum[i] = 0;
for(j = 0; j < cols; j++)
rowSum[i] += matrix[i][j];
}
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
abhaygupta@192 main.c % ./a.out
Enter number of rows and columns: 3
3
Enter elements of the matrix:
1
2
3
4
5
6
7
8
9
Sum of each row:
Row 1 sum = 6
Row 2 sum = 15
Row 3 sum = 24
abhaygupta@192 main.c %
zsh
zsh
main*+
0 0
Ln 24, Col 5
Spaces: 4
UTF-8
LF
C
Mac
Prettier

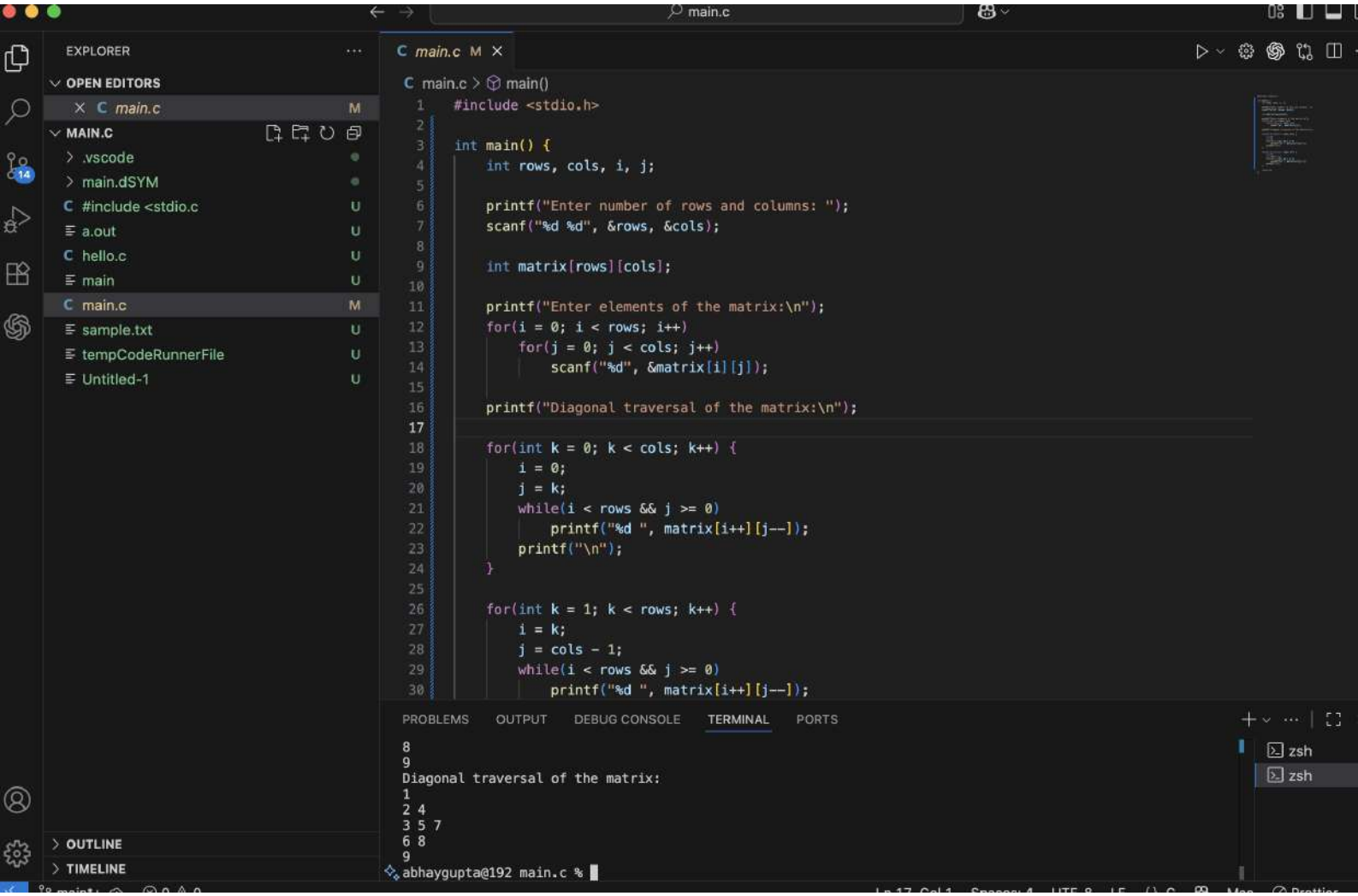

EXPLORER
OPEN EDITORS
main.c M
MAIN.C
.vscode
main.dSYM
#include <stdio.c U
a.out U
hello.c U
main U
main.c M
sample.txt U
tempCodeRunnerFile U
Untitled-1 U
OUTLINE
main.c M
main.c > main()
#include <stdio.h>
int main() {
int rows, cols, i, j;
printf("Enter number of rows and columns: ");
scanf("%d %d", &rows, &cols);
int matrix[rows][cols], transpose[cols][rows];
printf("Enter elements of the matrix:\n");
for(i = 0; i < rows; i++) {
for(j = 0; j < cols; j++)
scanf("%d", &matrix[i][j]);
}
for(i = 0; i < rows; i++) {
for(j = 0; j < cols; j++)
transpose[j][i] = matrix[i][j];
}
printf("Transpose of the matrix:\n");
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
zsh
abhaygupta@192 main.c % gcc main.c
abhaygupta@192 main.c % ./a.out
Enter number of rows and columns: 2
2
Enter elements of the matrix:
12
23
45
67
Transpose of the matrix:
12 45
23 67
abhaygupta@192 main.c %

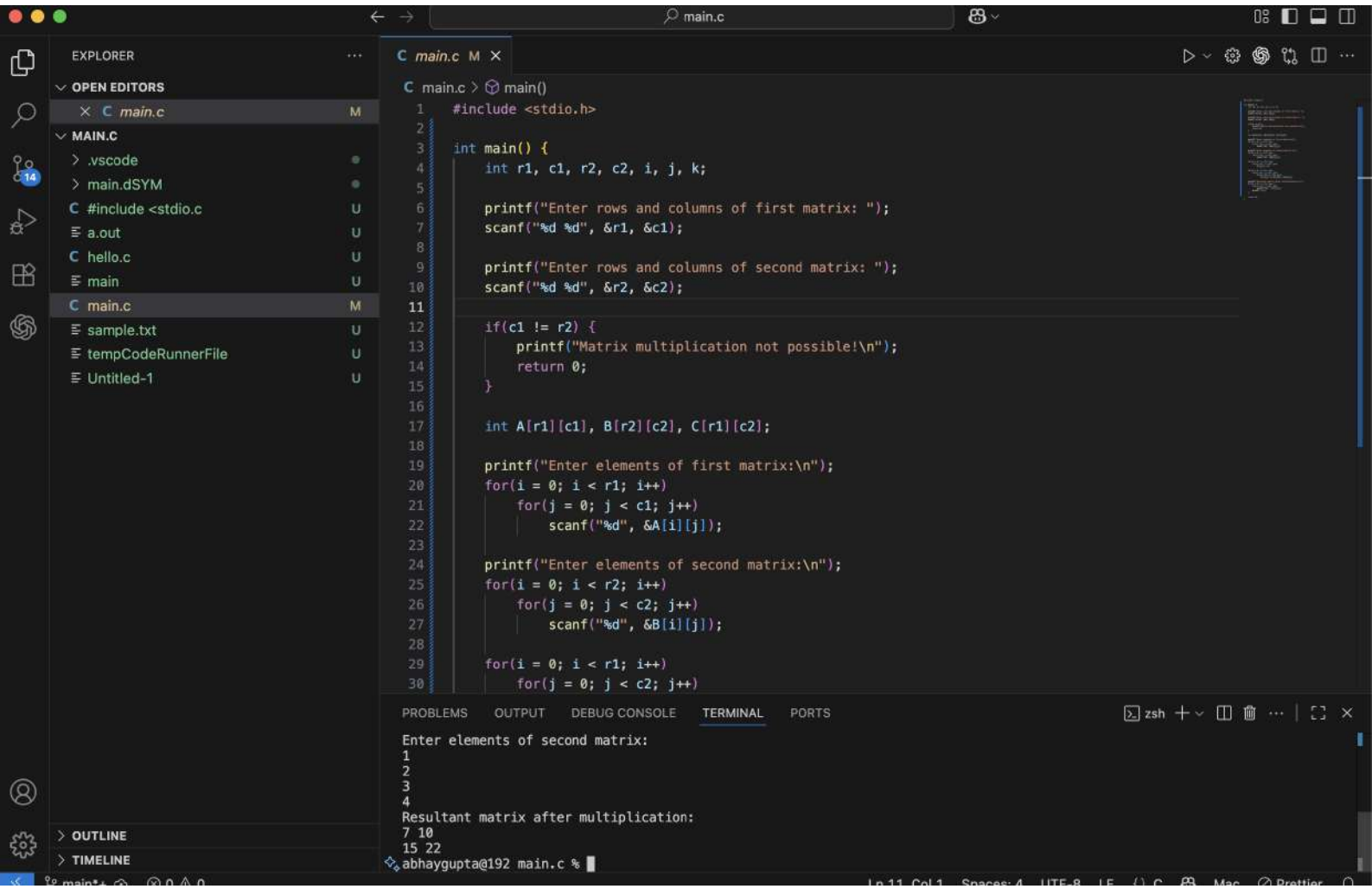

main.c
EXPLORER
OPEN EDITORS
main.c M
MAIN.C
.vscode
main.dSYM
#include <stdio.c U
a.out U
hello.c U
main U
main.c M
sample.txt U
tempCodeRunnerFile U
Untitled-1 U
OUTLINE
TIMELINE
main.c M
main.c > main()
#include <stdio.h>
int main() {
int rows, cols, i, j;
printf("Enter number of rows and columns: ");
scanf("%d %d", &rows, &cols);
int A[rows][cols], B[rows][cols], Sum[rows][cols];
printf("Enter elements of first matrix:\n");
for(i = 0; i < rows; i++)
for(j = 0; j < cols; j++)
scanf("%d", &A[i][j]);
printf("Enter elements of second matrix:\n");
for(i = 0; i < rows; i++)
for(j = 0; j < cols; j++)
scanf("%d", &B[i][j]);
for(i = 0; i < rows; i++)
for(j = 0; j < cols; j++)
Sum[i][j] = A[i][j] + B[i][j];
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
zsh
zsh
abhaygupta@192 main.c % gcc main.c
abhaygupta@192 main.c % ./a.out
Enter number of rows and columns: 2
2
Enter elements of first matrix:
1
2
3
4
Enter elements of second matrix:
4
3
2
1
Sum of the two matrices:
5 5
5 5
abhaygupta@192 main.c %


main.c
EXPLORER
OPEN EDITORS
main.c M
MAIN.C
.vscode
main.dSYM
#include <stdio.c U
a.out U
hello.c U
main U
main.c M
sample.txt U
tempCodeRunnerFile U
Untitled-1 U
OUTLINE
TIMELINE
main.c M
main.c > main()
#include <stdio.h>
int main() {
int n, i, j, flag = 1;
printf("Enter size of square matrix: ");
scanf("%d", &n);
int matrix[n][n];
printf("Enter elements of the matrix:\n");
for(i = 0; i < n; i++)
for(j = 0; j < n; j++)
scanf("%d", &matrix[i][j]);
for(i = 0; i < n; i++) {
for(j = 0; j < n; j++) {
if(matrix[i][j] != matrix[j][i]) {
flag = 0;
break;
}
}
}
if(flag)
printf("The matrix is symmetric.\n");
else
printf("The matrix is not symmetric.\n");
return 0;
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
zsh
abhaygupta@192 main.c % gcc main.c
abhaygupta@192 main.c % ./a.out
Enter size of square matrix: 2
Enter elements of the matrix:
2 2
1 2
The matrix is not symmetric.
abhaygupta@192 main.c %


main.c
EXPLORER
OPEN EDITORS
main.c M
MAIN.C
.vscode
main.dSYM
#include <stdio.c U
a.out U
hello.c U
main U
main.c M
sample.txt U
tempCodeRunnerFile U
Untitled-1 U
OUTLINE
TIMELINE
main.c M
main.c > main()
#include <stdio.h>
int main() {
int n, i, j, flag = 1;
printf("Enter size of square matrix: ");
scanf("%d", &n);
int matrix[n][n];
printf("Enter elements of the matrix:\n");
for(i = 0; i < n; i++)
for(j = 0; j < n; j++)
scanf("%d", &matrix[i][j]);
for(i = 0; i < n; i++) {
for(j = i + 1; j < n; j++) {
if(matrix[i][i] == matrix[j][j]) {
flag = 0;
break;
}
}
if(flag == 0)
break;
}
if(flag)
printf("All diagonal elements are distinct.\n");
else
printf("Diagonal elements are not distinct.\n");
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
zsh
3
4
5
6
7
8
1
Diagonal elements are not distinct.
abhaygupta@192 main.c %
main*+
0 0
Ln 14, Col 1
Spaces: 4
UTF-8
LF
C
Mac
Prettier


main.c
EXPLORER
OPEN EDITORS
main.c M
MAIN.C
.vscode
main.dSYM
#include <stdio.c U
a.out U
hello.c U
main U
main.c M
sample.txt U
tempCodeRunnerFile U
Untitled-1 U
OUTLINE
TIMELINE
main.c M
main.c > main()
#include <stdio.h>
int main() {
int n, i, j, sum = 0;
printf("Enter size of square matrix: ");
scanf("%d", &n);
int matrix[n][n];
printf("Enter elements of the matrix:\n");
for(i = 0; i < n; i++) {
for(j = 0; j < n; j++) {
scanf("%d", &matrix[i][j]);
if(i == j)
sum += matrix[i][j];
}
}
printf("Sum of main diagonal elements = %d\n", sum);
return 0;
}
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
abhaygupta@192 main.c % ./a.out
Enter size of square matrix: 2
Enter elements of the matrix:
1
2
3
4
Sum of main diagonal elements = 5
abhaygupta@192 main.c %
zsh
zsh


main.c
EXPLORER
OPEN EDITORS
main.c M
MAIN.C
.vscode
main.dSYM
#include <stdio.c U
a.out U
hello.c U
main U
main.c M
sample.txt U
tempCodeRunnerFile U
Untitled-1 U
OUTLINE
TIMELINE
main.c M
main.c > main()
#include <stdio.h>
int main() {
int rows, cols, i, j;
printf("Enter number of rows and columns: ");
scanf("%d %d", &rows, &cols);
int matrix[rows][cols];
printf("Enter elements of the matrix:\n");
for(i = 0; i < rows; i++)
for(j = 0; j < cols; j++)
scanf("%d", &matrix[i][j]);
printf("Diagonal traversal of the matrix:\n");
for(int k = 0; k < cols; k++) {
i = 0;
j = k;
while(i < rows && j >= 0)
printf("%d ", matrix[i++][j--]);
printf("\n");
}
for(int k = 1; k < rows; k++) {
i = k;
j = cols - 1;
while(i < rows && j >= 0)
printf("%d ", matrix[i++][j--]);
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
8
9
Diagonal traversal of the matrix:
1
2 4
3 5 7
6 8
9
abhaygupta@192 main.c %
zsh
zsh


main.c
EXPLORER
OPEN EDITORS
main.c M
MAIN.C
.vscode
main.dSYM
#include <stdio.c U
a.out U
hello.c U
main U
main.c M
sample.txt U
tempCodeRunnerFile U
Untitled-1 U
OUTLINE
TIMELINE
main.c M
main.c > main()
#include <stdio.h>
int main() {
int r1, c1, r2, c2, i, j, k;
printf("Enter rows and columns of first matrix: ");
scanf("%d %d", &r1, &c1);
printf("Enter rows and columns of second matrix: ");
scanf("%d %d", &r2, &c2);
if(c1 != r2) {
printf("Matrix multiplication not possible!\n");
return 0;
}
int A[r1][c1], B[r2][c2], C[r1][c2];
printf("Enter elements of first matrix:\n");
for(i = 0; i < r1; i++)
for(j = 0; j < c1; j++)
scanf("%d", &A[i][j]);
printf("Enter elements of second matrix:\n");
for(i = 0; i < r2; i++)
for(j = 0; j < c2; j++)
scanf("%d", &B[i][j]);
for(i = 0; i < r1; i++)
for(j = 0; j < c2; j++)
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
zsh
Enter elements of second matrix:
1
2
3
4
Resultant matrix after multiplication:
7 10
15 22
abhaygupta@192 main.c %