```c
#include <stdio.h>

int main() {
    int rows, cols;
    int i, j, max;

    printf("Enter number of rows: ");
    scanf("%d", &rows);
    printf("Enter number of columns: ");
    scanf("%d", &cols);

    int matrix[100][100]; // maximum size assumption

    printf("Enter elements of the matrix:\n");
    for (i = 0; i < rows; i++) {
        for (j = 0; j < cols; j++) {
            scanf("%d", &matrix[i][j]);
        }
    }

    // Initialize max with the first element
    max = matrix[0][0];

    // Find the largest element
    for (i = 0; i < rows; i++) {
        for (j = 0; j < cols; j++) {
            if (matrix[i][j] > max)
                max = matrix[i][j];
```

```
        }
    }

    printf("\nThe largest element in the matrix is: %d\n", max);

    return 0;
}
```

```
Enter number of rows: 2
Enter number of columns: 3
Enter elements of the matrix:
4 5 6
5 6 4

The largest element in the matrix is: 6


=== Code Execution Successful ===
```