8. 2D MATRIX TRANSVERS PROGRAM

```c
#include <stdio.h>

int main() {
    int a[10][10], t[10][10];
    int r, c, i, j;

    printf("Enter rows and columns: ");
    scanf("%d %d", &r, &c);

    printf("Enter matrix elements:\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("\nTranspose of the matrix:\n");
    for (i = 0; i < c; i++) {
        for (j = 0; j < r; j++)
            printf("%d\t", t[i][j]);
        printf("\n");
    }

    return 0;
}
```

Output:

```
Enter rows and columns: 2 3
Enter matrix elements:
1 2 3
4 5 6

Transpose of the matrix:
1   4
2   5
3   6


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