

```

/* transpose of a matrix*/

rows = +prompt("Enter no of rows: ")
cols = +prompt("Enter no of columns: ")
matrix=[]
for(i=1;i<=rows;i++){
    sub=[]
    for(j=1;j<=cols;j++){
        console.log("Enter "+i+" "+j+" element: ")
        ele=+prompt()
        sub.push(ele)
    }
    matrix.push(sub)
}
matrix2 = []
for(i=1;i<=rows;i++)
{
    sub2=[]
    for(j=1;j<=cols;j++)
    {
        a = [j][i]
        sub2.push(a)
    }
    matrix2.push(sub2)
}
console.log(matrix2)

```

o/p:

```

Enter 11 element: 1
Enter 12 element: 2
Enter 13 element: 3
Enter 21 element: 4
Enter 22 element: 5
Enter 23 element: 6
Enter 31 element: 7
Enter 32 element: 8
Enter 33 element: 9
[[1, 2, 3],[4, 5, 6],[7, 8, 9]]
1 4 7
2 5 8
3 6 9

```