```c
1    #include<stdio.h>
2        int main(){
3
4        int i,j,r,c;
5        printf("Enter number of rows : ");
6        scanf("%d", &r);
7
8        printf("Enter number of columns : ");
9        scanf("%d", &c);
10
11        int matrix[r][c],sum_row=0,sum_column=0;
12
13        printf("Enter elements of matrix: \n");
14        for(i=0;i<r;i++){
15            for(j=0;j<c;j++){
16                printf("Enter element for Row: %d and Col: %d = ",i+1,j+1);
17                scanf("%d", &matrix[i][j]);
18            }
19        }
20
21
22        printf("\n Matrix is: \n\n");
23        for(i=0;i<r;i++){
24            for(j=0;j<c;j++)
25                printf("\t%d",matrix[i][j]);
26
27            printf("\n\n");
28        }
29
30
31        for(i=0;i<r;i++){
32            for(j=0;j<c;j++){
33                sum_row += matrix[i][j];
34            }
35            printf("Sum of Row %d is : %d\n",i+1,sum_row);
36            sum_row=0;
37        }
38        printf("\n\n");
39
40        for(j=0;j<c;j++){
41            for(i=0;i<r;i++){
42                sum_column += matrix[i][j];
43            }
44            printf("Sum of Column %d is : %d\n",j+1,sum_column);
45            sum_column=0;
46        }
47
48
49        return 0;
50
51    }
```