

```
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_main=0,sum_minor=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 for(i=0;i<r;i++){
22     sum_main += matrix[i][i];
23     sum_minor += matrix[i][c-1-i];
24 }
25
26 printf("\n Matrix is: \n\n");
27 for(i=0;i<r;i++){
28     for(j=0;j<c;j++)
29         printf("\t%d",matrix[i][j]);
30
31     printf("\n\n");
32 }
33
34 printf("\n The sum of main diagonal is : %d \n\n",sum_main);
35 printf("\n The sum of minor diagonal is : %d \n\n",sum_minor);
36
37
38 return 0;
39
40 }
```