```c
1    #include<stdio.h>
2        int main(){
3
4        int i,j,r,c,flag=1;
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       printf("\n Matrix is: \n\n");
22       for(i=0;i<r;i++){
23           for(j=0;j<c;j++)
24               printf("\t%d",matrix[i][j]);
25
26           printf("\n\n");
27       }
28
29       for(i=0;i<r;i++){
30           for(j=0;j<c;j++){
31               if(matrix[i][j]!=1 && matrix[j][i] !=0){
32                   flag=0;
33                   break;
34               }
35           }
36       }
37       if(flag==1)
38           printf("Identity Matrix\n");
39
40       else
41           printf("Not an Identity Matrix\n");
42
43
44       return 0;
45
46   }
```