```
#include<stdio.h>
1
    int main()
2
    {
3
      int a[10][10],transpose[10][10],r,c,i,j;
4
      printf("Enter rows and columns:");
5
      scanf("%d%d",&r,&c);
6
      printf("\nEnter matrix elements:\n");
7
      for(i=0;i<r;++i)
8
       for(j=0;j<c;++j)
9
10
            printf("Enter element a%d%d:",i+1,j+1);
11
            scanf("%d",&a[i][j]);
12
13
         printf("\nEntered matrix:\n");
14
         for(i=0;i<r;++i)
15
             for(j=0;j<c;++j)
16
17
               printf("%d",a[i][j]);
18
               if(j==c-1)
19
               printf("\n");
20
21
             for(i=0;i<r;++i)
22
                for(j=0;j<c;++j)
23
24
                  transpose[j][i]=a[i][j];
25
26
                printf("\n Transpose of the matrix:
27
    \n");
                for(i=0;i<c;++i)
28
                   for(j=0; j<r;++j)
29
30
                      printf("%d", transpose[i][j]);
31
                     if(j==r-1)
32
                      printf("\n");
33
34
35
                   return 0;
36
TAB
                                       &
                                               RUN
```



INPUT

If your program needs any run time inputs, please add it here. Use new lines for more than one input.



CANCEL RUN

```
Enter rows and columns:
Enter matrix elements:
Enter element a11:Enter element
a12:Enter element a13:Enter element
a21:Enter element a22:Enter element
a23:
Entered matrix:
140
-527

Transpose of the matrix:
1-5
42
07
```

Nome 3- Pooja Rajesh Talekon USN 3- 4ALI9CSOGA

write a c program to unplement transpose of a mators

-Algorithum :-

Step 1 3- Stoot

Step 2 3- Input To.C

Step 3 :- for (=0) (To !tti)

Step 4 %- for (1=0:37 c;++1)

Step 5:- for Enter matorix aciocis

Step 6 ?- for (1=018701++1)

Step 7 ?- for (5=0; 57 C; ++3)

Step 8 %- if () = = (-1)

Step 9 :- for (1=0;170;++1)

Step 101 - for (]=01 35 C 1++1)

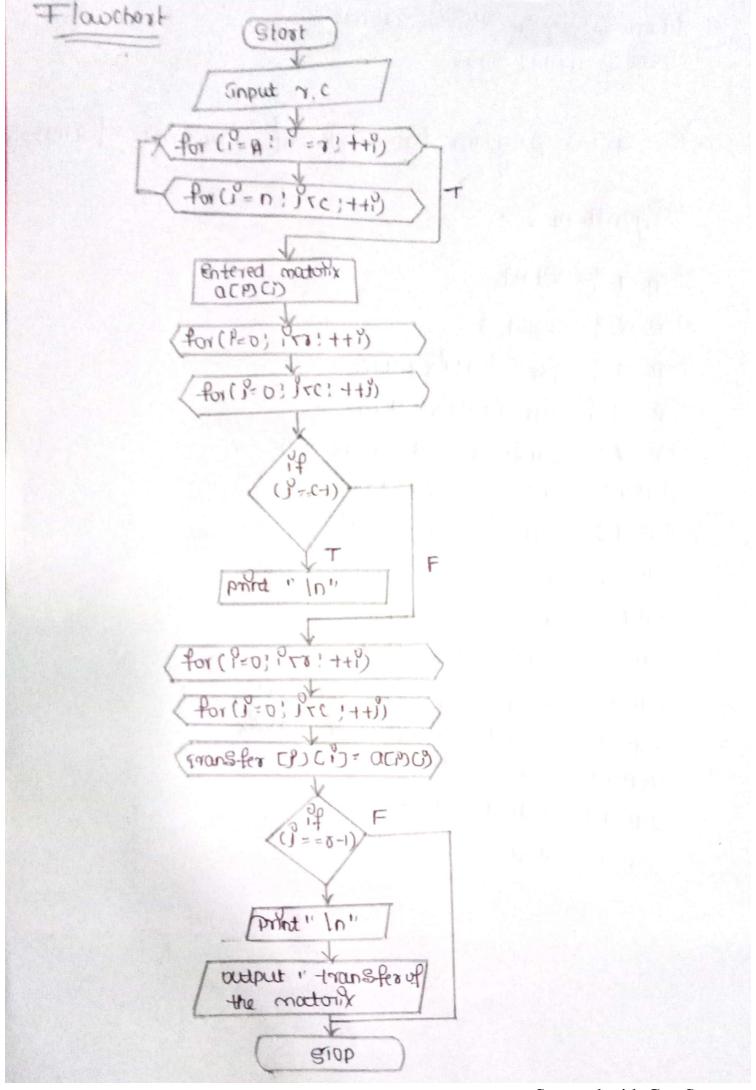
Step 11: - Transpose [}) = a [] []]

Step 12: - output transpose of matorix

Step 13 = 17 ()== 8-1)

Step 14% output matorix

Step 15 %- Stop.



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