**Algorithm and flowchart for finding the transpose of a matrix.**

Algorithm

1. Start

2.Display Enter mattype,1 for 2\*2 and 2 for 3\*3

3. Is mattype 1

4. If yes Enter a,b,c,d.

5. Display a,b,c,d

6. Display TransMatA= a,c,b,

d

7. If no, Enter a,b,c,d,e,f,g,h,i

8. Display (Num1=a),(Num2=d),(Num3=g),(Num4=b),(Num5=e),(Num6=h),(Num7=c),(Num8=f),(Num9=i)

9. Stop

Flowchart

Start

Enter mattype

Is mattype=1

Yes No

Enter a,b,c,d

Enter a,b,c,d,e,f,g,h,i

Display a,c,b,d (as matrix)

Display a,d,g,b,e,h,c,f,i (as matrix.)

Stop