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1BM19CS042

```
import java.util.Scanner;
Class Matrix
{
int m,n,i,j,a[][],t[][];
 void getData()
 {
 Scanner s=new Scanner(system.in)
  System.out.println("enter no. of rows");
  m=s.nextInt();
  System.out.println("enter no. of colums ");
  n=s.nextInt();
  a=new int[m][n];
  System.out.println("enter elements of array ");
  for(i=0;i<m;i++)
  {for(j=0;j<n;j++)
   {a[i][j]=s.nextInt();
   }
  }
}
void display()
{
 System.out.println("array:");
  for(i=0;i<m;i++)
  {
   for(j=0;j<n;j++)
    {
     System.out.println(a[i][j]);
    }System.out.println("");
  }
}
```

```
void transpose()
{
 t = new int[n][m];
 System.out.println("Transpose:");
 for (i=0; i<m; i++)
  {
   for (j=0; j<n; j++)
   {
    t[j][i] = a[i][j];
   }
 }
 for (i=0; i<n; j++)
  {
  for(j=0; j<m; j++)
  {
   system.out.println(t[i][j]);
  } System.out.println();
 }
}
public static void main(String []args)
{
 Matrix m = new Matrix();
  m.getData();
 m.display();
  m.transpose();
}
```