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Aim:

JAVA PROGRAM TO DISPLAY THE TRANSPOSE OF A MATRIX

CODE:

```
System.out.println("Enter the number of column: \n");
n=sc.nextInt(); //Matrix Size Initialization
int arr[][]=new int[10][10];
                                 //Matrix Size Declaration
System.out.println("Enter the elements of the matrix: ");
for(int i=0;i<m;i++) //Matrix Initialization
{
 for(int j=0;j<n;j++)
     arr[i][j]=sc.nextInt();
  }
//Print the original Matrix
System.out.println("The elements in the original matrix are: ");
for(int i=0;i<m;i++) //Print the matrix
{
  for(int j=0;j< n;j++)
  {
     System.out.print(arr[i][j]+" ");
  System.out.println("");
```

```
int brr[][]=new int[10][10]; //Transpose Matrix Declaration
for(int i=0;i<m;i++) //Transpose Matrix initialization
{
   for(int j=0;j<n;j++)
     brr[j][i]=arr[i][j]; //Store elements in the transpose matrix
System.out.println("After transposing the elements are...");
for(int i=0;i<m;i++) //Print the transpose matrix
{
   for(int j=0;j<n;j++)
     System.out.print(brr[i][j]+" ");
   }
  System.out.println("");
```

OUTPUT:

