```
import java.util.Scanner;
public class Matrix_Sort
  public static void main(String args[])
    Scanner br = new Scanner(System.in);
     System.out.println("\nEnter the number of rows");
    int M = br.nextInt(); //To store the number of rows
    System.out.println("Enter the number of columns");
    int N = br.nextInt(); //To store the number of columns
    if(M>2 && N>2 && M<10 && N<10) //Checking whether the number of rows and columns are
within the range
    {
       int A[][] = new int[M][N]; //Initalzing the matrix
       System.out.println("\nENTER ELEMENTS OF MATRIX");
       //Inputting the Elements
       for(int i=0;i< M;i++)
         for(int j=0;j< N;j++)
            A[i][j] = br.nextInt();
       }
       //Printing the Original Matrix
       System.out.println("\nORIGINAL MATRIX");
       for(int i=0;i< M;i++)
         for(int j=0;j< N;j++)
            System.out.print(A[i][j]+" ");
         System.out.println();
       }
       //Sorting each row using bubble sort
       for(int i=0;i< M;i++)
       {
         for(int j1=0;j1<N;j1++)
```

```
{
           for(int j=0; j<(N-1); j++)
             if(A[i][j]>A[i][j+1])
                int t=A[i][j];
                A[i][j]=A[i][j+1];
                A[i][j+1]=t;
       }
      //Printing the matix after the sorting is done
      System.out.println("\nMATRIX\ AFTER\ SORTING\ ROWS");
       for(int i=0; i<M; i++)
         for(int j=0; j<N; j++)
           System.out.print(A[i][j]+" ");
         System.out.println();
    else
      System.out.println("MATRIX SIZE OUT OF RANGE");
    }
OUTPUT
Enter the number of rows
Enter the number of columns
ENTER ELEMENTS OF MATRIX
-9
8
-21
```

ORIGINAL MATRIX

-98-21

637

-5 3 1

MATRIX AFTER SORTING ROWS

-21 -9 8

367

-5 1 3

Enter the number of rows

11

Enter the number of columns

3

MATRIX SIZE OUT OF RANGE