OBJECT ORIENTED PROGRAMMING LAB

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# Experiment No.: 2

**Aim**

Read 2 matrices from the console and perform matrix addition.

**Procedure** import java.util.\*; class AddMatrix

{

public static void main(String args[])

{

int row, col,i,j;

Scanner in = new Scanner(System.in); System.out.println("Enter the number of rows"); row = in.nextInt();

System.out.println("Enter the number columns"); col = in.nextInt();

int mat1[][] = new int[row][col];

int mat2[][] = new int[row][col];

int res[][] = new int[row][col]; System.out.println("Enter the elements of matrix1"); for ( i= 0 ; i < row ; i++ )

{

for ( j= 0 ; j < col ;j++ ) mat1[i][j] = in.nextInt();

}

System.out.println("Enter the elements of matrix2"); for ( i= 0 ; i < row ; i++ )

{

for ( j= 0 ; j < col ;j++ ) mat2[i][j] = in.nextInt();

}

for ( i= 0 ; i < row ; i++ ) for ( j= 0 ; j < col ;j++ )

res[i][j] = mat1[i][j] + mat2[i][j] ; System.out.println("Sum of matrices:-"); for ( i= 0 ; i < row ; i++ )

{

for ( j= 0 ; j < col ;j++ ) System.out.print(res[i][j]+"\t"); System.out.println();

}

}

}

# Output Screenshot:

