**Experiment 6**

**package** Five\_Package;

**import** java.util.Arrays;

**import** java.util.Scanner;

**public** **class** sorting {

**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 of 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 matrix 1 ");

**for** (i=0; i<row; i++) {

**for** (j=0; j<col; j++)

mat1[i][j] = in.nextInt();

System.***out***.println();

}

System.***out***.println("Enter the elements of matrix 2 ");

**for** (i=0; i<row; i++) {

**for** (j=0; j<col; j++)

mat2[i][j] = in.nextInt();

System.***out***.println();

}

**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 :

Enter the number of rows :

2

Enter the number of columns :

2

Enter the elements of matrix 1

11

11

11

11

Enter the elements of matrix 2

22

22

22

22

Sum of Matrices :

33 33

33 33