OOPs in JAVA

Experiment No.: 10

<u>Aim</u>

Matrix Addition

Sourcecode & Output Screenshot

import java.util.*;

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```
class MatrixAddition{
       public static void main(String[] args){
               int row, col;
               Scanner sc= new Scanner(System.in);
               System.out.print("Enter the number of rows for the Matrices: ");
               row= sc.nextInt();
               System.out.print("Enter the number of columns for the Matrices: ");
               col= sc.nextInt();
               int[][] matrixA= new int[row][col];
               int[][] matrixB= new int[row][col];
               int[][] matrixSum= new int[row][col];
               System.out.println("Enter the elements for the Matrix A:");
               for(int i=0;i< row;i++){}
                      for(int j=0; j<\text{col}; j++){
                              matrixA[i][j]= sc.nextInt();
                       }
               System.out.println("\n");
```

```
System.out.println("Enter the elements for the Matrix B:");
for(int i=0;i< row;i++){}
        for(int j=0; j<\text{col}; j++){
                matrixB[i][j]= sc.nextInt();
        }
}
System.out.println("\n");
System.out.println("Matrix A is : ");
for(int i=0;i<row;i++){
        for(int j=0;j<col;j++){}
                System.out.print(matrixA[i][j]+" ");
        }
        System.out.println("\n");
}
System.out.println("Matrix B is : ");
for(int i=0;i<row;i++){
        for(int j=0;j<col;j++){}
                System.out.print(matrixB[i][j]+" ");
        }
        System.out.println("\n");
}
for(int i=0;i< row;i++){
        for(int j=0; j<\text{col}; j++){
                matrixSum[i][j]= matrixA[i][j] + matrixB[i][j];
        }
}
System.out.println("Resultant of the Matrix Addition is: ");
for(int i=0;i< row;i++){}
        for(int j=0; j<\text{col}; j++){
```