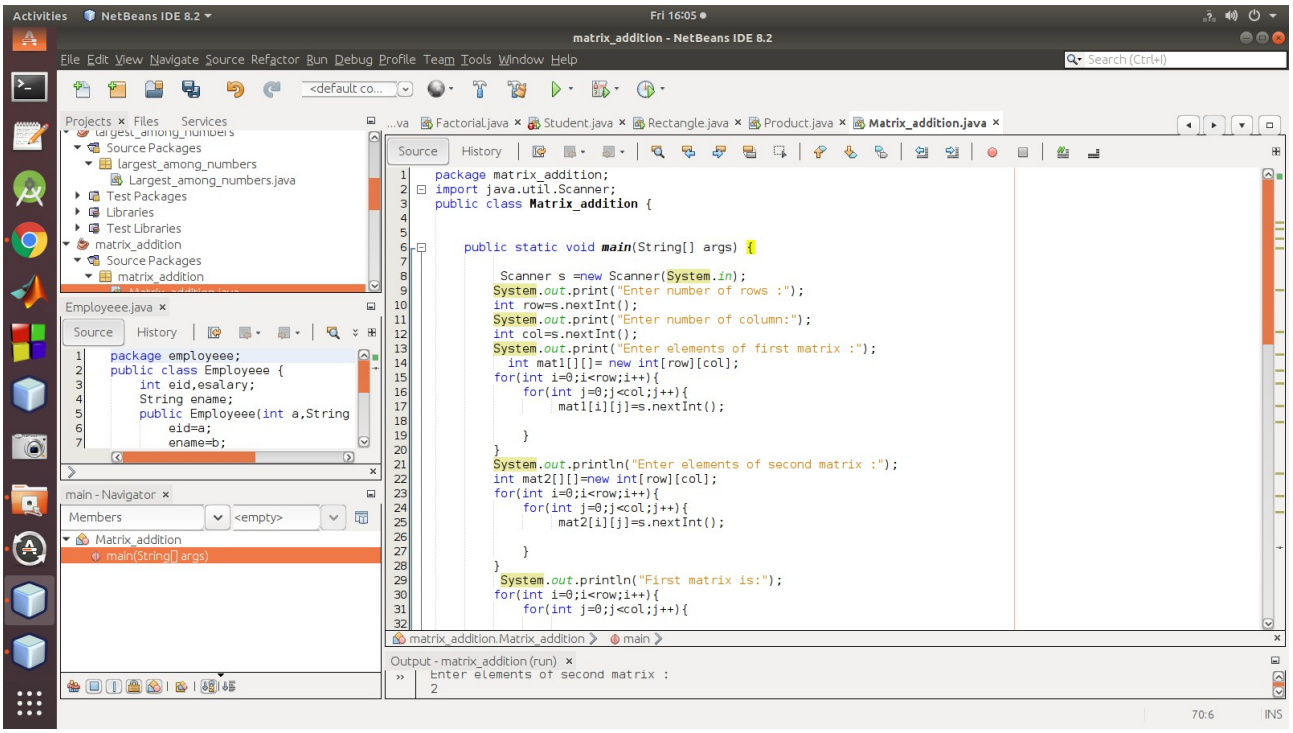
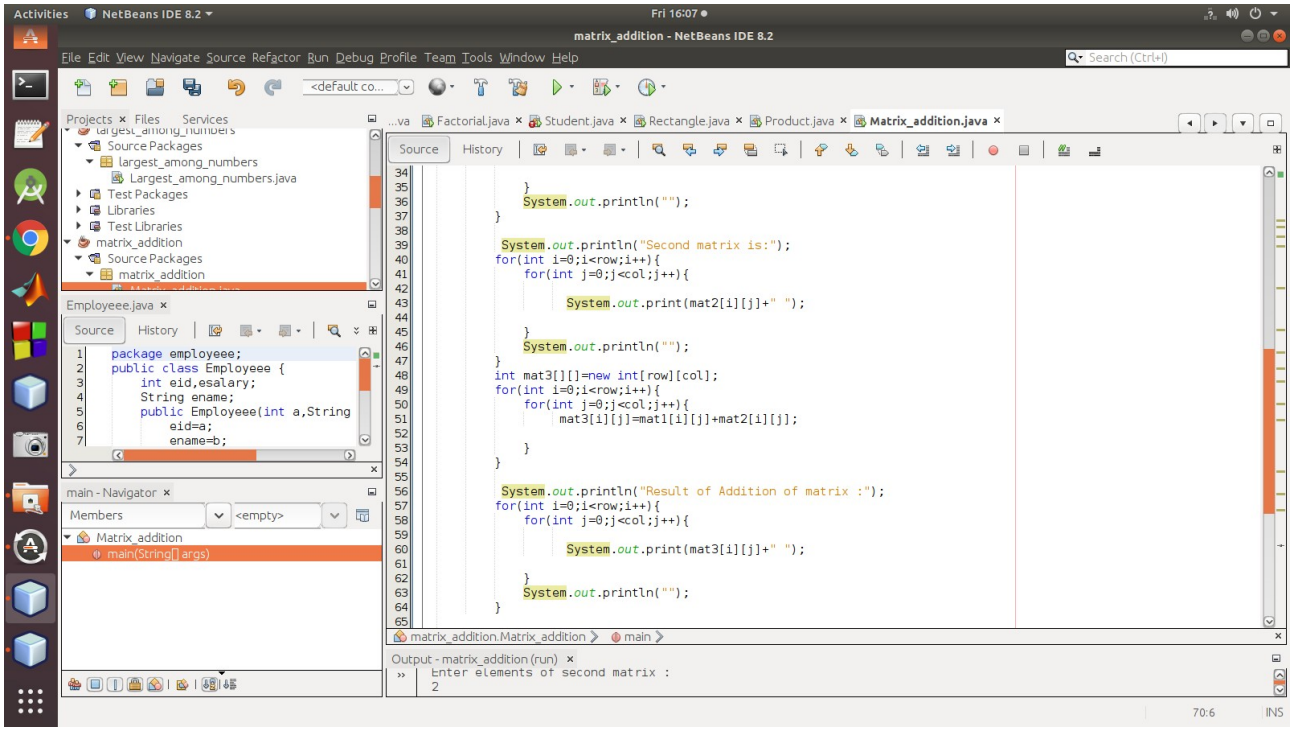
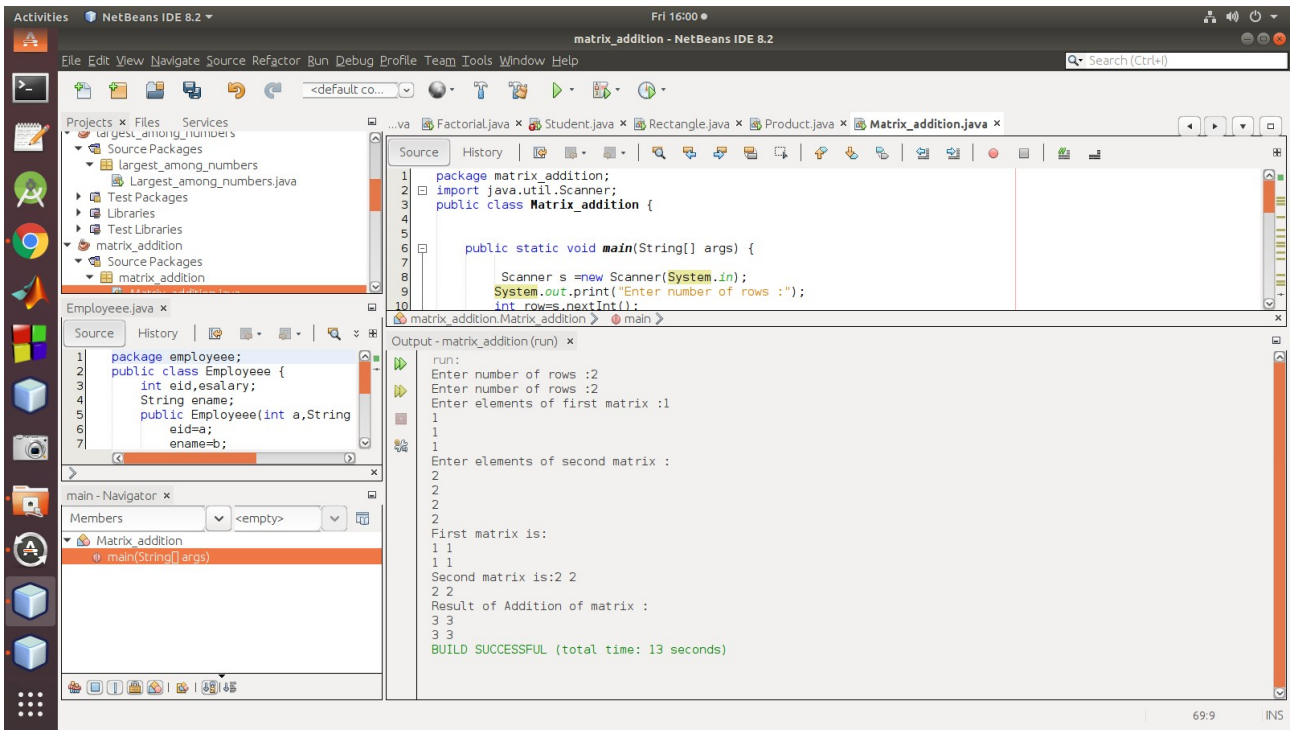
2. Read 2 matrices from the console and perform matrix addition.

```
package matrix_addition;
import java.util.Scanner;
public class Matrix_addition {


    public static void main(String[] args) {

         Scanner s =new Scanner(System.in);
        System.out.print("Enter number of rows :");
        int row=s.nextInt();
        System.out.print("Enter number of column:");
        int col=s.nextInt();
        System.out.print("Enter elements of first matrix :");
          int mat1[][]= new int[row][col];
        for(int i=0;i<row;i++){
            for(int j=0;j<col;j++){
                mat1[i][j]=s.nextInt();

            }
        }
        System.out.println("Enter elements of second matrix :");
        int mat2[][]=new int[row][col];
        for(int i=0;i<row;i++){
            for(int j=0;j<col;j++){
                mat2[i][j]=s.nextInt();

            }
        }
         System.out.println("First matrix is:");
        for(int i=0;i<row;i++){
            for(int j=0;j<col;j++){

                 System.out.print(mat1[i][j]+" ");

            }
            System.out.println("");
        }

         System.out.println("Second matrix is:");
        for(int i=0;i<row;i++){
            for(int j=0;j<col;j++){

                 System.out.print(mat2[i][j]+" ");

            }
            System.out.println("");
        }
        int mat3[][]=new int[row][col];
```

```
        for(int i=0;i<row;i++){
            for(int j=0;j<col;j++){
                mat3[i][j]=mat1[i][j]+mat2[i][j];

            }
        }

         System.out.println("Result of Addition of matrix :");
        for(int i=0;i<row;i++){
            for(int j=0;j<col;j++){

                System.out.print(mat3[i][j]+" ");

            }
            System.out.println("");
        }



    }

}
```




Activities
NetBeans IDE 8.2
Fri 16:07
matrix_addition - NetBeans IDE 8.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Search (Ctrl+I)
Projects
Files
Services
Source Packages
largest_among_numbers
Largest_among_numbers.java
Test Packages
Libraries
Test Libraries
matrix_addition
Source Packages
matrix_addition
Factorial.java
Student.java
Rectangle.java
Product.java
Matrix_addition.java
Source
History
System.out.println("Second matrix is:");
for(int i=0;i<row;i++){
for(int j=0;j<col;j++){
System.out.print(mat2[i][j]+" ");
}
System.out.println("");
}
int mat3[][]=new int[row][col];
for(int i=0;i<row;i++){
for(int j=0;j<col;j++){
mat3[i][j]=mat1[i][j]+mat2[i][j];
}
}
System.out.println("Result of Addition of matrix :");
for(int i=0;i<row;i++){
for(int j=0;j<col;j++){
System.out.print(mat3[i][j]+" ");
}
System.out.println("");
}
Employeee.java
package employeee;
public class Employeee {
int eid,esalary;
String ename;
public Employeee(int a,String
eid=a;
ename=b;
main - Navigator
Members
<empty>
Matrix_addition
main(String[] args)
matrix_addition.Matrix_addition
main
Output - matrix_addition (run)
Enter elements of second matrix :
2
70:6
INS


Activities
NetBeans IDE 8.2
Fri 16:00
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System.out.print("Enter number of rows :");
int row=s.nextInt();
Employeee.java
package employeee;
public class Employeee {
int eid,esalary;
String ename;
public Employeee(int a,String
eid=a;
ename=b;
main - Navigator
Members
<empty>
Matrix_addition
main(String[] args)
matrix_addition.Matrix_addition
main
Output - matrix_addition (run)
run:
Enter number of rows :2
Enter number of rows :2
Enter elements of first matrix :1
1
1
1
Enter elements of second matrix :
2
2
2
2
First matrix is:
1 1
1 1
Second matrix is:2 2
2 2
Result of Addition of matrix :
3 3
3 3
BUILD SUCCESSFUL (total time: 13 seconds)
69:9
INS