

# **Logic Building Assignment: 74**

### 1. Write java program which Add Two Matrices.

```
import java.util.*;
public class AddMatrices
{
     public static void main(String args[])
          int row, col;
          Scanner sc=new Scanner(System.in);
          System.out.print("Input number of rows: ");
          row=sc.nextInt();
          System.out.print("Input number of rows: ");
          col=sc.nextInt();
          int a[][]=new int[row][col];
                                        //for matrix 1
          int b[][]=new int[row][col];
                                         //for matrix 2
          int c[][]=new int[row][col];
                                         //for matrix 3
          System.out.println("Enter elements of matrix a:");
          for(int i=0; i< row; i++)
               for(int j=0; j < col; j++)
                    System.out.print("Element [" + (i+1) + "," + (j+1)]
+ "]?");
                    a[i][j]=sc.nextInt();
               }
          }
          System.out.println("Enter elements of matrix b:");
          for(int i=0; i< row; i++)
          {
               for(int j=0; j<col; j++)
               {
                    System.out.print("Element [" + (i+1) + "," + (j+1)]
+ "]?");
                    b[i][j]=sc.nextInt();
               }
          }
```

Piyush Khairnar: 7588945488

©Marvellous Infosystems



```
System.out.println("Matrix a:");
     for(int i=0; i< row; i++)
     {
          for(int j=0; j<col; j++)
                System.out.print(a[i][j] + "\t");
          System.out.print("\n");
     }
     System.out.println("Matrix b:");
     for(int i=0; i< row; i++)
          for(int j=0; j<col; j++)
          {
                System.out.print(b[i][j] + "\t");
          System.out.print("\n");
     }
     for(int i=0; i< row; i++)
          for(int j=0; j<col; j++)
                c[i][j]=a[i][j];
          }
     }
     System.out.println(":: Final Matrix:");
     for(int i=0; i< row; i++)
     {
          for(int j=0; j<col; j++)
                System.out.print(c[i][j] + "\t");
          System.out.print("\n");
     }
}
```

}



```
public class PrintPattern
{
  public static void main(String args[])
     int space=4;
     for(int i=1; i<=5; i++)
     {
        //print spaces
        for(int j=1; j < = space; j++)
           System.out.print(" ");
        //print stars
        for(int j=1; j <=i; j++)
           System.out.print("* ");
        //print new line
        System.out.println();
        space--;
  }
```



```
public class PrintPattern
{
  public static void main(String args[])
     int space=0;
     for(int i=5; i>=1; i--)
     {
        //print spaces
        for(int j=1; j < = space; j++)
           System.out.print(" ");
        //print stars
        for(int j=1; j <=i; j++)
           System.out.print("* ");
        //print new line
        System.out.println();
        space++;
  }
```



```
**
         ***
   **** ****
   ******
public class PrintPattern
{
  public static void main(String args[])
     int space=8;
     for(int i=1; i<=5; i++)
        //print first part of the row
        for(int j=1; j <=i; j++)
           System.out.print("*");
        //print space
        for(int j=1;j <= space; j++)
           System.out.print(" ");
        //print second part of the row
        for(int j=1; j <=i; j++)
           System.out.print("*");
        //print new lint
        System.out.println();
        space=space-2;
     }
  }
```

Piyush Khairnar: 7588945488



```
*****
   **** ****
         ***
  **
         **
          *
public class PrintPattern
  public static void main(String args[])
  {
     int space=0;
     for(int i=5; i>=1; i--)
     {
        //print first part of the row
        for(int j=i; j>=1; j--)
           System.out.print("*");
       //print space
        for(int j=1;j <= space; j++)
           System.out.print(" ");
        //print second part of the row
        for(int j=i; j>=1; j--)
           System.out.print("*");
        //print new lint
        System.out.println();
        space=space+2;
     }
  }
```