

1. Problem statement: Write a program to print the following pattern:

```
*      *  
  
* *  
  
*  
  
* *  
  
*      *
```

2. code with comments:

```
import java.lang.*;  
import java.util.Scanner;  
public class TestMethod  
{  
    public static void main(String[] args)  
    {  
        int size=5; char display='*';           //defining variable size and character  
        for (int row = 0; row<size; row++)      // for loop for row iterations  
        {  
            for (int col=0; col<size; col++) // nested for loop for column iterations  
            {  
                if (row==0 && col==0){        // if conditions to print the character  
                    System.out.print(display);}  
                if (row==0 && col==4){  
                    System.out.print(display);}  
                if(row==1 && col==1){  
                    System.out.print(display);}  
                if(row==1 && col==3){  
                    System.out.print(display);}  
                if(row==2 && col==2){  
                    System.out.print(display);}  
                if(row==3 && col==1){
```

```

System.out.print(display);}

if(row==3 && col==3){

System.out.print(display);}

if(row==4 && col==0){

System.out.print(display);}

if(row==4 && col==4){

System.out.print(display);}

```

```

else{           // else condition to print empty space

    System.out.print(" ");

}

```

```

    }

```

```

}

```

```

}

```

```

}

```

3. Explanation of the code: Creating For loop for identifying row and the Nested for loop for identifying the column. Assigning the character '*' to display and will print it in the respective row/column and forms the 'X' pattern.

4. Result flow in detail:

Creating For loop for identifying row and the Nested for loop for identifying the column. Assigning the character '*' to display and will print it in the respective row/column and forms the 'X' pattern.

5. Output screenshot:

```

11 public class TestMethod {
12
13
14 public static void main(String[] args)
15 {
16     int size=5; char display='*';
17     for (int row = 0; row<size; row++)
18     {
19         for (int col=0; col<size; col++)
20         {
21             if (row==0 && col==0){
22                 System.out.print(display);}
23             if (row==0 && col==4){
24                 System.out.print(display);}
25             if(row==1 && col==1){
26                 System.out.print(display);}
27             if(row==1 && col==3){
28                 System.out.print(display);}
29             if(row==2 && col==2){
30                 System.out.print(display);}
31             if(row==3 && col==1){
32                 System.out.print(display);}
33             if(row==3 && col==3){
34                 System.out.print(display);}
35             if(row==4 && col==0){
36                 System.out.print(display);}
37             if(row==4 && col==4){
38                 System.out.print(display);}

```

Problems @ Javadoc Declaration Console

<terminated> TestMethod [Java Application] C:\Program Files\Java\jdk1.8.0_111\bin\javaw.exe (25-Nov-2018, 10:30:10 PM)

```

*   *
*   *
*
*   *
*   *

```