

1.Problem Statement:

Print the following pattern displayed below.

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

2.Source code:

```
/*Program to display the below expected pattern below

*   *
 *  *
  *
 *  *
*   *

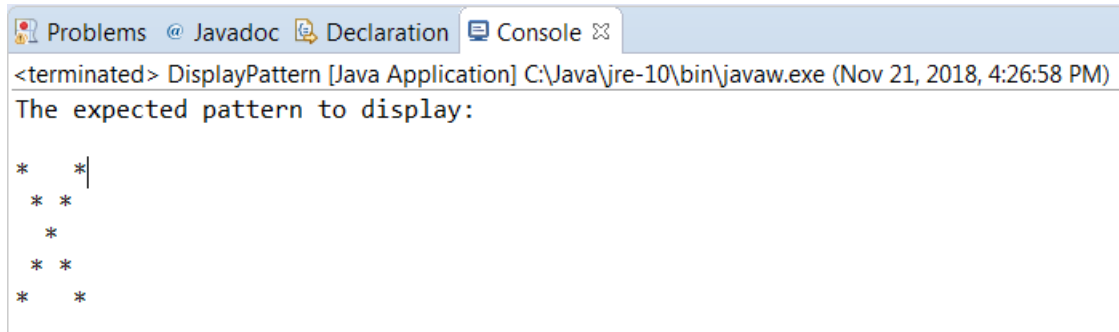
*/
package mypackage;

public class DisplayPattern
{
    //Declaration of main method
    public static void main(String[] args)
    {
        //Declare the variable for total number of rows.
        int rows=5;
        System.out.println("The expected pattern to display:");
        System.out.println();

        //Loop to traverse to the total no of times to display the * and space
        character.
        for(int i=0;i<rows;i++)
        {
            for(int j=0;j<rows;j++)
            {
                if ((i==j) || j == rows-i-1)
                    //Displaying the * symbol
                    System.out.print("*");
                else {
                    //Printing the space character
                    System.out.print(" ");
                }
            }
            //To insert a new line
            System.out.println();
        }
    }
}

} //End of the program
```

3.Output:



```
<terminated> DisplayPattern [Java Application] C:\Java\jre-10\bin\javaw.exe (Nov 21, 2018, 4:26:58 PM)
The expected pattern to display:
*  * |
* *
*
* *
* *
```

4.Additional Information:

Initially an integer variable is declared and assigned as 5. To display the expected pattern in total of 5 rows , a for loop is written and inside this for loop, another for loop is written to determine the position where exactly the symbol '*' and space character can be displayed based on the if condition .Finally output heading is displayed along with expected pattern.