

Class Driver12

1/3

```
import javax.swing.JOptionPane;
/**
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 * @teacher     Coglianese
 * @period      2
 * @version     12-10-18
 *
 * Driver12 makes star designs
 */
public class Driver12
{
    //Instance variables
    public static int myRows;
    /**
     * Default constructor
     */
    public static void main(String[] args)
    {
        while(true)
        {
            myRows = Integer.parseInt(
                JOptionPane.showInputDialog(
                    "How many rows? (-1 to quit)"));
            if(myRows == -1)
            {
                System.out.println("Dave, this conversation can serve no purpose anymore. Goodbye.");
                System.exit(0);
            }
            String message = "What type? (1-4)";
            message += "\n1. Standard";
            message += "\n2. Backward";
            message += "\n3. Pyramid";
            message += "\n4. Box with X";
            int type = Integer.parseInt(JOptionPane.showInputDialog(message));
        };
        switch(type)
        {
            case 1: standard(myRows);
            break;
            case 2: backward(myRows);
            break;
            case 3: pyramid(myRows);
            break;
            case 4: box(myRows);
            break;
            default: System.out.println("It can only be attributable to human error.");
        }
    }
}
```

```
        break;
    }
    System.out.println("That's a very nice rendering, Dave. \nI thin
k you've improved a great deal.");
}
}

/**
 * Makes a design as specified
 *
 * @param      n      Amount of rows
 */
public static void standard(int n)
{
    String s="";
    for(int i=1;i<=n;i++) {
        s=s+"*";
        System.out.println(s);
    }
}

/**
 * Makes a design as specified
 *
 * @param      n      Amount of rows
 */
public static void backward(int n)
{
    for(int i=1;i<=n;i++) {
        for(int j=1;j<=n-i;j++)
            System.out.print(" ");
        for(int j=1;j<=i;j++)
            System.out.print("*");
        System.out.println();
    }
}

/**
 * Makes a design as specified
 *
 * @param      n      Amount of rows
 */
public static void pyramid(int n)
{
    for(int i=1;i<=n;i++) {
        for(int j=1;j<=n-i;j++)
            System.out.print(" ");
        for(int j=1;j<=i;j++)
            System.out.print("*");
        for(int j=1;j<=i-1;j++)
            System.out.print("*");
    }
}
```

Class Driver12 (continued)

3/3

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

/**
 * Makes a design as specified
 *
 * @param      n      Amount of rows
 */
public static void box(int n)
{
    for (int row = 1; row <= n; row++) {
        for (int col = 1; col <= n; col++)
            if((col==1) || (col==n) || (row==1) || (row==n) || (row==col) || (row+
col-1==n))
                System.out.print("*");
            else
                System.out.print(" ");
        System.out.println();
    }
}
```