

```
import java.util.Scanner;

import java.util.Random;

public class BauerMethodLab{

    public static String oddOrEven(int num){

        // Check if the number is divisible by 2.

        if(num%2==0)

            return "even";

        else

            return "odd";

    }

    public static int multByRand(int num){

        Random rand = new Random();

        // Generate a random number.

        int rand_int = rand.nextInt(8)+8;

        return num*rand_int;

    }

    public static void printBoxes(int num1,int num2){

        // Draw boxes in rows and columns.

        for(int i=0; i<num2; i++){

            for(int j=0; j<num1; j++){

                System.out.print("[ ] ");

            }

            System.out.println();

        }

    }

}
```

```

    }
}

public static void main (String [] args)
{
    Scanner in = new Scanner(System.in);
    System.out.println("Enter a number");
    //Getting the value from the user.
    int num = in.nextInt();
    System.out.println("Your number is the following: " + num);
    System.out.println("Your number is " + oddOrEven(num) );
    //oddOrEven will return the string either odd or even depending on the
value of the parameter.
    num = multByRand(num);
    //multByRand multiplies the parameter by a random number between
8 and 15.
    System.out.println("The new number is " + num);
    printBoxes(num, num + 1);

    // printBoxes will output the following when num = 3.
    // [] [] []
    // [] [] []
    // [] [] []
    // [] [] []
}
}

```