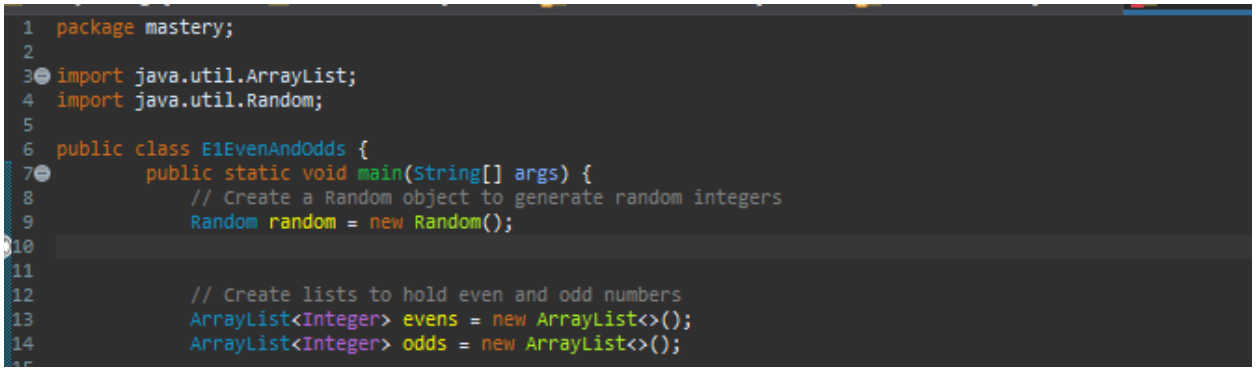
Credit
2120
Assignment
E1EvensAndOdds

Create a EvensAndOdds application that generates 25 random integers between 0 and 99 and then displays all the evens on one line and all the odds on the next line.

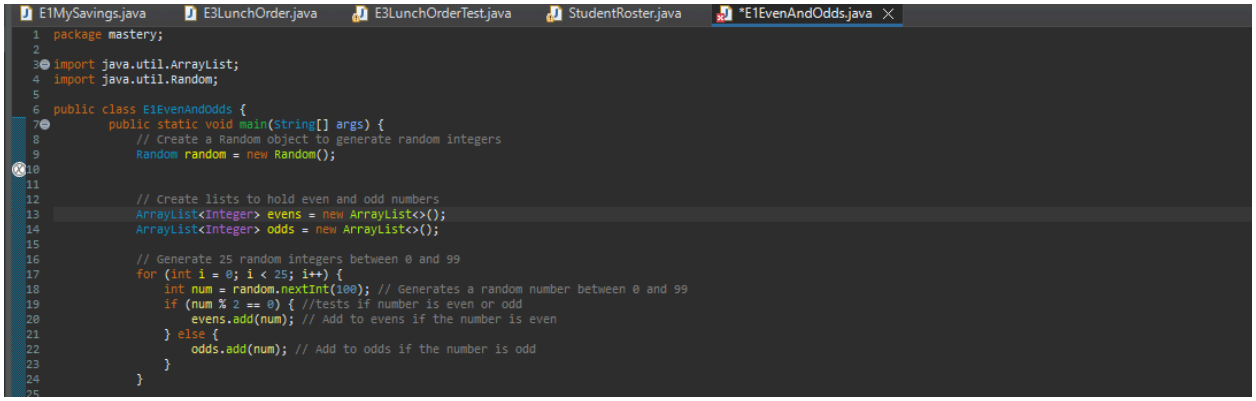
How has your program changed from planning to coding to now? Please explain?



```java
package mastery;

import java.util.ArrayList;
import java.util.Random;

public class E1EvenAndOdds {
        public static void main(String[] args) {
            // Create a Random object to generate random integers
            Random random = new Random();


            // Create lists to hold even and odd numbers
            ArrayList<Integer> evens = new ArrayList<>();
            ArrayList<Integer> odds = new ArrayList<>();
```

Starting it off creating lists and importing functions

Created the number generator



E1MySavings.java | E3LunchOrder.java | E3LunchOrderTest.java | StudentRoster.java | *E1EvenAndOdds.java

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        public static void main(String[] args) {
            // Create a Random object to generate random integers
            Random random = new Random();


            // Create lists to hold even and odd numbers
            ArrayList<Integer> evens = new ArrayList<>();
            ArrayList<Integer> odds = new ArrayList<>();

            // Generate 25 random integers between 0 and 99
            for (int i = 0; i < 25; i++) {
                int num = random.nextInt(100); // Generates a random number between 0 and 99
                if (num % 2 == 0) { //tests if number is even or odd
                    evens.add(num); // Add to evens if the number is even
                } else {
                    odds.add(num); // Add to odds if the number is odd
                }
            }
```

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                    evens.add(num); // Add to evens if the number is even
                } else {
                    odds.add(num); // Add to odds if the number is odd
                }
            }

            // Display all odd numbers
            System.out.print("ODD: ");
            for (int odd : odds) {
                System.out.print(odd + " ");
            }
            System.out.println(); // Move to the next line
```

Displays odd numbers
Copy and change for evens

```java
            // Display all even numbers
            System.out.print("EVEN: ");
            for (int even : evens) {
                System.out.print(even + " ");
            }
```

Final code

```java
package mastery;

import java.util.ArrayList;
import java.util.Random;

public class E1EvenAndOdds {
    public static void main(String[] args) {
        // Create a Random object to generate random integers
        Random random = new Random();


        // Create lists to hold even and odd numbers
        ArrayList<Integer> evens = new ArrayList<>();
        ArrayList<Integer> odds = new ArrayList<>();

        // Generate 25 random integers between 0 and 99
        for (int i = 0; i < 25; i++) {
            int num = random.nextInt(100); // Generates a random number between 0 and 99
            if (num % 2 == 0) { //tests if number is even or odd
                evens.add(num); // Add to evens if the number is even
            } else {
                odds.add(num); // Add to odds if the number is odd
            }
        }

        // Display all odd numbers
        System.out.print("ODD: ");
        for (int odd : odds) {
            System.out.print(odd + " ");
        }
        System.out.println(); // Move to the next line

        // Display all even numbers
        System.out.print("EVEN: ");
        for (int even : evens) {
            System.out.print(even + " ");
         }
    }
}
```