ew Go Run Terminal Help ArrayEvenOdd.java -

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ArrayEvenOdd.java > Array_List > arraylist()

```
import java.util.*;
import java.util.Scanner;


class Smallest_distance
{
static void smallest_distance()
{
int[] arr = new int[10];
Scanner sc = new Scanner(System.in); System.out.println(x:"Enter 10 numbers: "); for (int i = 0; i < 10; i++) {
arr[i] = sc.nextInt();
}
int min = Integer.MAX_VALUE; int minI=0,minJ=0;
for (int i = 0; i < 9; i++) { int diff = arr[i+1] - arr[i]; if(diff < min){
min = diff; minI = i; minJ = i+1;
}
}
System.out.println("The smallest distance is between " + arr[minI] + " and " + arr[minJ]+ " and the distance is " + min);
sc.close();
}
}


class Array_List{
static void arraylist()
{
int[] array = new int[10];
Scanner sc = new Scanner(System.in); System.out.println(x:"Enter 10 numbers: "); for(int i = 0; i < 10; i++)
{
int n = sc.nextInt(); array[i] = n;
}


ArrayList<Integer> list = new ArrayList<Integer>(); for(int i = 0; i < 10; i++){
list.add(array[i]);
}
System.out.println(list); sc.close();
}
}


public class ArrayEvenOdd
{
Run | Debug
public static void main(String[] args) {

System.out.println(x:"1. Smallest distance between two numbers in an array"); System.out.println(x:"2. Array to ArrayList");
System.out.println(x:"3. Even and Odd numbers"); System.out.println(x:"Enter your choice: "); Scanner sc1 = new Scanner(System
int choice = sc1.nextInt(); switch(choice)
{
case 1:
Smallest_distance.smallest_distance(); break;
case 2:
Array_List.arraylist(); break;
case 3:
// Create two arrays odd and even int[] odd = new int[10];
int[] even = new int[10];


Scanner sc = new Scanner(System.in);
System.out.print(s:"Enter numbers to classify, enter 'end' to stop: "); while(true)
{
String input = sc.nextLine(); if(input.equals(anObject:"end"))
{
break;
}
else
{
int num = Integer.parseInt(input); if(num%2 == 0)

{
for(int i=0; i<even.length; i++)
{
if(even[i] == 0)
{
even[i] = num; break;
}
}
}
else
{
for(int i=0; i<odd.length; i++)
{
if(odd[i] == 0)
```

```
    int[] even = new int[10];


    Scanner sc = new Scanner(System.in);
    System.out.print(s:"Enter numbers to classify, enter 'end' to stop: "); while(true)
    {
    String input = sc.nextLine(); if(input.equals(anObject:"end"))
    {
    break;
    }
    else
    {
    int num = Integer.parseInt(input); if(num%2 == 0)

    {
    for(int i=0; i<even.length; i++)
    {
    if(even[i] == 0)
    {
    even[i] = num; break;
    }
    }
    }
    else
    {
    for(int i=0; i<odd.length; i++)
    {
    if(odd[i] == 0)
    {
    odd[i] = num; break;
    }
    }
    }
    }
    }
    sc.close();
    // Print the arrays System.out.println("Even numbers: "); for(int i=0; i<even.length; i++)
    {
    if(even[i] != 0)
    {
    System.out.print(even[i]+" ");
    }

    }
    System.out.println(); System.out.println(x:"Odd numbers: "); for(int i=0; i<odd.length; i++)
    {
    if(odd[i] != 0)
    {
    System.out.print(odd[i]+" ");
    }
    }


    default:
    System.out.println(x:"Invalid choice");
    }
    sc1.close();
    }
    }
```