```
// Name: Rupankar Das
// PRN: 23070126111
// Batch: Class of 2027 | AIML B2
// \ {\it Description: This program demonstrates array operations, including separation of even/odd numbers, // }
finding the smallest distance between two numbers, and converting between arrays and ArrayLists.
main(String[] args) {

different function

public static void

// Evample
                        // Example usage of
        // Separate even and odd numbers
EvenOddSeparator separator = new EvenOddSeparator();
separator.acceptNumbers();
                                  separator.display();
        // Find smallest distance between two adjacent numbers int[] arr = {3, 8, 15,
2, 7, 9}; int index = SmallestDistanceFinder.findSmallestDistanceIndex(arr);
System.out.println("Index of the first number with the smallest distance: " + index);
        // Convert between Array and ArrayList
ArrayConverter converter = new ArrayConverter();
converter.arrayToArrayList();
converter.arrayListToArray();
}
```

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GITHUB

https://github.com/mvrck-dev/Java-Lab/tree/main/Assignments/Assignment%202

```
PROBLEMS
                                                                                                                                                         + \vee \cdots \wedge \times
               OUTPUT
                        DEBUG CONSOLE
                                      PORTS
                                              SQL CONSOLE
                                                           TERMINAL
                                                                    GITLENS
                                                                             COMMENTS

    Run: Main

cation\ Support/Code/User/workspaceStorage/177b2b9548c96b4967073b386a93b242/redhat.java/jdt ws/Assignment\ 2 113eea2d/bin Main
                                                                                                                                                           >_ zsh
  Enter the number of elements: 23
 Enter 23 numbers:
 ^[^C%
\usr/bin/env /Library/Java/Java/JavaVirtualMachines/jdk-23.jdk/Contents/Home/bin/java --enable-preview -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/rupankar/Library/Appli
  cation\ Support/Code/User/workspaceStorage/177b2b9548c96b4967073b386a93b242/redhat.java/jdt ws/Assignment\ 2 113eea2d/bin Main
  Enter the number of elements: 3
  Enter 3 numbers:
  12 45 3
  Even numbers: [12]
 Odd numbers: [45, 3]
  Index of the first number with the smallest distance: 4
 Converted Array to ArrayList: [Apple, Banana, Cherry]
  Converted ArrayList to Array: [Dog, Cat, Elephant]
tree
   — ArrayConverter.java
   — EvenOddSeparator.java
     Main.java
   — README.md
  SmallestDistanceFinder.java
 1 directory, 5 files
⊗ 0 △ 1 № 0 ↔ Connect 🕏 Live Share 🖰 Java: Ready SonarQube focus: overall code
                                                                                      Ln 16, Col 68 Spaces: 3 UTF-8 LF Markdown Ab| 🖗 Go Live 🕸 🖯 No cluster selected 🥵 🚨
```