1. **Problem Name:** Write a Java program to find the sum of all odd numbers in an array.

Problem Code & Output:

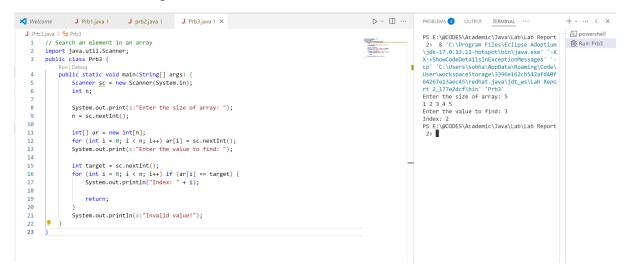
2. Problem Name: Write a Java program that takes two arrays as input, calculate the index wise sum of these arrays, and store the result in a third array.

Problem Code & Output:

```
| TERMINAL | Dybbljava | Dybbl
```

3. Problem Name: Write a Java program to search an element in an array.

Problem Code & Output:



4. Problem Name: Write a Java program to reverse the elements in an array without using a second array.

Problem Code & Output:



5. Problem Name: Write a Java program to find the second highest element of an array.

Problem Code & Output:

```
J Prb5.java > ♣ Prb5 > ♦ main(String[])
                                                                                                                                                                                            PS E:\@CODES\Academic\Java\Lab\Lab Report
         // Find second highest element
                                                                                                                                                                                            2> & 'C:\Program Files\Eclipse Adoptium\j
dk-17.0.13.11-hotspot\bin\java.exe' '-XX:+
ShowCodeDetailsInExceptionMessages' '-cp'
         import java.util.Scanner;
         public class Prb5 {
                                                                                                                                                                                           ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\sobha\AppData\Roaming\Code\User\workspaceStorage\3396e162cb542afd40F64267e
13aec45\rednat,java\jdt_ws\Lab Report 2_17
7e2dcf\bin' 'Prb5'
Enter the size of array: 5
2 4 6 8 10
Second highest: 8
PS E:\@CODES\Academic\Java\Lab\Lab Report
2> |
               public static void main(String[] args) {
                     Scanner sc = new Scanner(System.in);
                     System.out.print(s:"Enter the size of array: ");
                     n = sc.nextInt();
                     for (int i = 0; i < n; i++) ar[i] = sc.nextInt();</pre>
 12
 14
                     int max = Integer.MIN_VALUE, secondMax = Integer.MIN_VALUE;
                      for (int num : ar) {
    if (num > max) {
 15
16
                                  secondMax = max;
                            max = num;
} else if (num > secondMax && num != max) {
 19
                                 secondMax = num;
 21
23
24
25
                      System.out.println("Second highest: " + secondMax);
```

6. Problem Name: Write a Java program that calculates the average of an array, excluding the highest and lowest values in the array.

Problem Code & Output:

```
1.java 1 📕 Prb2.java 1 🗡 Prb2.java 1 🗡 Prb2.java 1 🗡 Prb2.java 1 🗡 Prb2.java 1 🗸 Prb2.java 1 V
                                                                                                                                                                                                                                                                                                                                                                                                PS E:\@CODES\Academic\Java\Lab\Lab Report 2> & 

'C:\Program Files\Eclipse Adoptium\jdk-17.0.13

.11-hotspot\bin\java.exe' '-XX:+ShowCodeDetails

InExceptionMessages' '-cp' 'C:\Users\sobhaAypD

ata\Roaming\Code\User\workspaceStorage\3396e162

cb$42afd40Ff64267e13aec45\redhat.java\jdt_ws\Lab

Report 2_177e2dcf\bin' 'Prb'

Enter the size of array: 5

2 4 6 8 10

Average: 6.0

PS E:\@CODES\Academic\Java\Lab\Lab Report 2>
        J Prb6.java > ધ Prb6 > ♦ main(String[])
              1 // Average excluding highest and lowest
              import java.util.Scanner;
public class Prb6 {
                                           Run|Debug
public static void main(String[] args) {
                                                       Scanner sc = new Scanner(System.in);
                                                        System.out.print(s:"Enter the size of array: ");
                                                        n = sc.nextInt();
                                                      int[] ar = new int[n];
for (int i = 0; i < n; i++) ar[i] = sc.nextInt();
int min = ar[0], max = ar[0], sum = ar[0];
for (int i = 1; i < n; i++) {
    sum += ar[i];
    if (ar[i] < min) min = ar[i];
    if (ar[i] > max) max = ar[i];
}
           11
          12
13
14
15
16
17
          18
19
20
                                                          sum = sum - (min + max);
                                                          System.out.println("Average: " + (sum / (double)(n - 2)));
          21
22
23
```