# **Assignment-3**

#### **REARRANGE THE GIVEN SORTED ARRAY**

#### CODE:

```
package Assignment3;

import java.util.Scanner;

public class Rearrangearrayelements {

public static void main(String[] args) {

Rearrangearrayelements rearrangeArrayElements = new Rearrangearrayelements();

rearrangeArrayElements.inputAcceptor();
}

// Accept inputs from the console and trigger validation and rearranging

public void inputAcceptor() { lusage

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the size of the array: ");

int size = scanner.nextInt();

if (inputArraySizeValidator(size)) {

int[] inputArray = new int[size];

System.out.println("Enter the elements of the array in sorted order:");

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

inputArray[i] = scanner.nextInt();
}

if (inputArrayValidator(inputArray)) {

int[] rearrangedArray = computEnearrangedArray(inputArray);

displayResult(outputArray nutl);
}
} else {

displayResult(outputArray nutl);
}
} else {

displayResult(outputArray nutl);
}
}
```

#### Output1:

```
"C:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\lib\idea_rt.jar=61788:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\bj
Enter the size of the array: 7
Enter the elements of the array in sorted order:
1 2 3 4 5 6 7
Rearranged array:
7 1 6 2 5 3 4
Process finished with exit code 0
```

## Output2:

```
"C:\Program Files\Java\jdk-20\bin\java.exe" "-javaegent:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\lib\idea_rt.jar=61798:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\bi Enter the size of the array in sorted order:

4 Rearranged array:

5 4

6 Process finished with exit code 8
```

### Output3:

```
"C:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\lib\idea_rt.jar=61804:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\bin Enter the size of the array: 0
Give proper input.

Process finished with exit code 0
```