Task 9: Generic Classes and Methods Implement a generic method that swaps the positions of two elements in an array, regardless of their type, and demonstrate its usage with different object types. ANS:

```
package com.Day23;
import java.util.Arrays;
public class Task9 {
 // Generic method to swap two elements in an array
 public static <T> void swapElements(T[] array, int index1, int index2) {
    T temp = array[index1];
    array[index1] = array[index2];
    array[index2] = temp;
 public static void main(String[] args) {
    // Swap elements in an Integer array
    Integer[] intArray = \{1, 2, 3, 4, 5\};
    System.out.println("Before swap: " + Arrays.toString(intArray));
    swapElements(intArray, 1, 3);
    System.out.println("After swap: " + Arrays.toString(intArray));
    // Swap elements in a String array
    String[] strArray = {"apple", "banana", "cherry", "date"};
    System.out.println("Before swap: " + Arrays.toString(strArray));
    swapElements(strArray, 0, 2);
    System.out.println("After swap: " + Arrays.toString(strArray));
 }
}
```