6a.Write a java programs to add n strings in a vector array. Input new string and check whether it is present in the vector. If it is present delete it otherwise add it to the vector.

**Code:-**

**import java.util.Scanner;**

**import java.util.Vector;**

**public class StringVectorOperations {**

**public static void main(String[] args) {**

**Scanner scanner = new Scanner(System.in);**

**Vector<String> stringVector = new Vector<>();**

**System.out.print("Enter the number of strings (n): ");**

**int n = scanner.nextInt();**

**// Adding n strings to the vector**

**for (int i = 0; i < n; i++) {**

**System.out.print("Enter string " + (i + 1) + ": ");**

**String inputString = scanner.next();**

**stringVector.add(inputString);**

**}**

**// Displaying the initial vector**

**System.out.println("Initial Vector: " + stringVector);**

**// Input a new string**

**System.out.print("Enter a new string: ");**

**String newString = scanner.next();**

**// Checking whether the new string is present in the vector**

**if (stringVector.contains(newString)) {**

**// If present, delete it**

**stringVector.remove(newString);**

**System.out.println(newString + " is present in the vector. It has been deleted.");**

**} else {**

**// If not present, add it**

**stringVector.add(newString);**

**System.out.println(newString + " is not present in the vector. It has been added.");**

**}**

**// Displaying the final vector**

**System.out.println("Final Vector: " + stringVector);**

**scanner.close();**

**}**

**}**