IMPLEMENTATION OF VECTORS

Assignment - 4 | SEM - 2

```
NAME: Ayush Vinod Upadhyay
ROLL NO: 1025
SAP ID: 60003220131
BRANCH: Information Technology
BATCH: 1
```

1. WAP to accept students name from command line and store them in vector.

CODE

```
import java.util.*;
class StudentNames
    public static void main(String[] args)
        Vector<String> names = new Vector<String>();
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter no of students");
        int n = sc.nextInt();
        System.out.println("Enter names of students");
        for(int i=0; i<n; i++)</pre>
        {
            names.add(sc.next());
        System.out.println("Printing names of students");
        for(int i=0; i<n; i++)</pre>
            System.out.println(names.get(i)+" ");
}
```

OUTPUT

```
C:\Users\ayush\Desktop\JAVA_assignment>java StudentNames
Enter no of students
Enter names of students
Ayush Anish Dhruv
Printing names of students
Avush
Anish
Dhruv
```

2. WAP to add n strings in a vector array. Input new string and check if it is present in the vector. If present delete it else add to the vector

CODE

```
import java.util.*;
class VectorStrings
      public static void main(String[] args)
             Scanner sc = new Scanner(System.in);
             Vector<String> vec = new Vector<String>();
             int n;
             System.out.println("Enter the number of strings: ");
             n = sc.nextInt();
             System.out.println("Enter the string elements of vector: ");
             for(int i=0; i<=n; i++)</pre>
                    vec.add(sc.nextLine());
             System.out.print("Enter new string: ");
             String newStr = sc.nextLine();
             if (vec.contains(newStr))
             {
                    vec.remove(newStr);
                    System.out.print(newStr+" is removed");
                    System.out.print(vec);
             else
             {
                    vec.add(newStr);
                    System.out.print(newStr+" is added");
                    System.out.print(vec);
             }
```

OUTPUT

```
C:\Users\ayush\Desktop\JAVA_assignment>javac VectorStrings.java

C:\Users\ayush\Desktop\JAVA_assignment>java VectorStrings
Enter the number of strings:
3
Enter the string elements of vector:
a
b
c
Enter new string: d
d is added[, a, b, c, d]

C:\Users\ayush\Desktop\JAVA_assignment>javac VectorStrings.java

C:\Users\ayush\Desktop\JAVA_assignment>java VectorStrings
Enter the number of strings:
3
Enter the string elements of vector:
a
b
c
Enter new string: c
c is removed[, a, b]
```