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**Branch: Information Technology**

**Div: D/IT1**

**Course: Object Oriented Programming using Java**

## **Experiment no. 4**

**Aim:** To implement collections (Array List/ Vectors)

### **Problem Statement 1:**

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

**Code:**

```
import java.util.*;

public class Student
{
    public static void main(String[] args)
    {
        Vector<String> vc=new Vector<String>();
        //Scanner obj=new Scanner(System.in);
        //System.out.println("Enter Number Student:");
        //int num=obj.nextInt();
        int a=Integer.parseInt(args[0]);
        for(int i=0;i<a;i++)
        {
            vc.add(args[i+1]);
        }
        System.out.println(vc);
    }
}
```

**Output**

```
C:\Users\91720\OneDrive\Desktop\Anish Java>java Student 3 Anish Manish Sonali
[Anish, Manish, Sonali]
```



### Problem Statement 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.*;

public class VectorLooping
{
    public static void main(String[] args)
    {
        Vector<String> vc=new Vector<String>();
        Scanner obj=new Scanner(System.in);
        vc.add("Java");
        vc.add("C");
        vc.add("Python");
        vc.add("CPP");
        int flag=0;
        System.out.println(vc);
        System.out.println("Enter string:");
        String word=obj.next();
        for(int i=0;i<vc.size();i++)
        {
            if(word.equals(vc.get(i)))
            {
                vc.remove(i);
                flag=1;
                break;
            }
        }
        if(flag==0)
        {
            vc.add(word);
            System.out.println(vc);
        }
    }
}
```



```
    }  
    else{  
        System.out.println(vc);  
    }  
}  
}
```

Output

```
C:\Users\91720\OneDrive\Desktop\Anish Java>java VectorLooping  
[Java, C, Python, CPP]  
Enter string:  
CPP  
[Java, C, Python]  
  
C:\Users\91720\OneDrive\Desktop\Anish Java>java VectorLooping  
[Java, C, Python, CPP]  
Enter string:  
anish  
[Java, C, Python, CPP, anish]
```