

### Program No.: 6

Write a program to create a vector to store the shopping list of items.

```
import java.io.*;
import java.util.*;
class Shop {
    public static void main(String args[]) {
        try {
            Vector list = new Vector();
            String str;
            int i, n, pos, ch = 0;
            DataInputStream b = new DataInputStream(System.in);
            do {
                System.out.println("Menu");

                System.out.println("1.Create\n2.Add\n3.Delete\n4.Display\n5.Exit");
                System.out.println("Enter Your Choice: ");
                ch = Integer.parseInt(b.readLine());
                switch (ch) {
                    case 1: {
                        System.out.println("Enter the item to be added to the
list");
                        str = b.readLine();
                        list.addElement(str);
                        System.out.println("Creating a List...");
                        break;
                    }
                    case 2: {
                        System.out.println("Enter an Item");
                        str = b.readLine();
                        System.out.println("Enter Position ");
                        pos = Integer.parseInt(b.readLine());
                        list.insertElementAt(str, pos - 1);
                        break;
                    }
                    case 3: {
                        n = list.size();
                        if (n == 0)
                            System.out.println("List is Empty");
                        else {
                            System.out.println("Enter the item to be Deleted: ");
                            str = b.readLine();
                            list.removeElement(str);
                        }
                        break;
                    }
                    case 4: {
                        int l = list.size();
                        String s[] = new String[l];
```

```
        if (l == 0)
            System.out.println("List is Empty");
        else {
            for (i = 0; i < l; i++) list.copyInto(s);
            System.out.println("The items in the list are");
            for (i = 0; i < l; i++) System.out.println(s[i]);
        }
        break;
    }
    case 5:
        System.exit(0);
    default: {
        System.out.println("Invalid Choice");
    }
}
} while (ch < 5);
} catch (Exception e) {
}
}
```

## Output:

```
D:\4th sem\Java\lab>java Shop
Menu
1.Create
2.Add
3.Delete
4.Display
5.Exit
Enter Your Choice:
1
Enter the item to be added to the list
Book
Creating a List...
Menu
1.Create
2.Add
3.Delete
4.Display
5.Exit
Enter Your Choice:
1
Enter the item to be added to the list
Pen
Creating a List...
Menu
1.Create
2.Add
3.Delete
4.Display
5.Exit
Enter Your Choice:
2
Enter an Item
Box
Enter Position
2
```

```
Menu
1.Create
2.Add
3.Delete
4.Display
5.Exit
Enter Your Choice:
4
The items in the list are
Book
Box
Pen
Menu
1.Create
2.Add
3.Delete
4.Display
5.Exit
Enter Your Choice:
5

D:\4th sem\Java\lab>
```