Expirment 4 ( Vector )

1) code:

import java.util.\*;

public class ShoppingList {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("How mant elements are there in List : ");

int n = sc.nextInt();

Vector v = new Vector(n,3);

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

System.out.printf("Enter the item %d : ",i+1);

String str = sc.next();

v.addElement(str);

}

//System.out.print("The elements in List are : "+v);

System.out.println("\t\tOperation");

System.out.println("\t1)add at specific location");

System.out.println("\t2)Delete item");

System.out.println("\t3)Display list");

System.out.println("\t4)Exit");

int choice=1;

while(choice!=4){

System.out.print("Enter the choice : ");

choice = sc.nextInt();

switch(choice){

case 1:

System.out.print("Enter the Location(index) : ");

int l = sc.nextInt();

System.out.print("Enter the item : ");

String str=sc.next();

v.add(l, str);

break;

case 2:

System.out.print("Enter the item want to delete : ");

String item=sc.next();

v.remove(item);

break;

case 3 :

System.out.print("The elements in List are : "+v);

break;

case 4 :

return;

default :

System.out.print("wrong choice ");

}

}

}

}

Output:

How mant elements are there in List : 2

Enter the item 1 : rice

Enter the item 2 : oil

Operation

1)add at specific location

2)Delete item

3)Display list

4)Exit

Enter the choice : 3

The elements in List are : [rice, oil]

Enter the choice : 1

Enter the Location(index) : 1

Enter the item : water

Enter the choice : 3

The elements in List are : [rice, water, oil]

Enter the choice : 2

Enter the item want to delete : oil

Enter the choice : 3

The elements in List are : [rice, water]

Enter the choice : 4

2) code:

import java.util.\*;

public class FrequencyOfElement {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("How many elements are there in vector : ");

int n = sc.nextInt();

Vector v = new Vector(n,3);

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

v.add(sc.next());

}

System.out.println("The elements in vector are: "+v);

System.out.print("Enter the element u want to find : ");

String val=sc.next();

int count=0;

for(int i=0;i<v.size();i++){

if(v.elementAt(i).equals(val))

count++;

}

if(count==0)

System.out.printf(" element not found");

else

System.out.printf(" frequency of element %s is %d ",val,count);

}

}

Output:

How many elements are there in vector : 10

1 2 1 1 3 10 1 9 3 6

The elements in vector are: [1, 2, 1, 1, 3, 10, 1, 9, 3, 6]

Enter the element u want to find : 1

frequency of element 1 is 4