**Q- Create a list of String and print the values in reverse order**

**Input – Java, Selenium, TestNG, Git, Github**

**Output- Github, Git, TestNG, Selenium, Java**

***Ans:***

***Package assignment4***

***public class Assignment4***

***{***

***/\* Q- Create a list of String and print the values in reverse order***

***Input – Java, Selenium, TestNG, Git, Github***

***Output- Github, Git, TestNG, Selenium, Java***

***\*/***

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

***List<String>list=new ArrayList<String>();***

***list.add("Java");***

***list.add("Selenium");***

***list.add("TestNG");***

***list.add("Git");***

***list.add("Github");***

***//The Original order of the list***

***System.out.println("The Original order of the list is :: "+ " "+ list);***

***Collections.reverse(list);***

***//Reverse the list of strings***

***System.out.println("Post Implementing the reverse technique in list of strings :: "+" "+list);***

***}***

***}***

***Q2-*** Write a program which will accept List of String and produce another List of string of which will have only values which starts with git

Input – Git, Github, GitLab,GitBash, Selenium, Java, Maven

Output- Git, Github, Gitlab, GitBash

***package base;***

***import java.util.ArrayList;***

***public class Assignment4***

***{***

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

***ArrayList<String> list=new ArrayList<String>();***

***ArrayList<String> anotherlist=new ArrayList<String>();***

***list.add("git");***

***list.add("Github");***

***list.add("GitLab");***

***list.add("GitBash");***

***list.add("Selenium");***

***list.add("Java");***

***list.add("Maven");***

***//The Original order of the list***

***System.out.println("The Original order of the list is :: "+ " "+ list);***

***for(int i=0;i<list.size();)***

***{***

***System.out.println("The Original order of the list is :: "+ " "+ list);***

***String bhairu=list.get(i);***

***System.out.println(bhairu);***

***i++;***

***String git = null;***

***if (bhairu.startsWith(git))***

***{***

***anotherlist.add(bhairu);***

***}***

***}***

***}***

***}***

**Q3- Write a program that will remove duplicate values from List**

**Input – Java, TestNG, Maven, Java,**

**Output – Java, TestNG, Maven**

***package base;***

***import java.util.ArrayList;***

***import java.util.HashSet;***

***import java.util.Set;***

***public class Assignment4***

***{***

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

***ArrayList<String> list=new ArrayList<String>();***

***list.add("Java");***

***list.add("TestNG");***

***list.add("Maven");***

***list.add("Java");***

***//The Original order of the list***

***System.out.println("The Original order of the list is :: "+ " "+ list);***

***//removing the repeated elements from the list***

***Set<String>remduplicate=new HashSet<String>(list);***

***System.out.println(remduplicate);***

***}***

***}***

**Q4- Create a list of values and print the second element, second last element.**

**Input – 10,45, 90,45, 23, 90, 44**

**Output – 45,90**

***Ans:***

***package base;***

***import java.util.ArrayList;***

***import java.util.HashSet;***

***import java.util.Set;***

***public class Assignment4***

***{***

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

***ArrayList<Integer> list=new ArrayList<>();***

***list.add(10);***

***list.add(45);***

***list.add(90);***

***list.add(45);***

***list.add(23);***

***list.add(90);***

***list.add(44);***

***//The Original order of the list***

***System.out.println("The Original order of the list is :: "+ " "+ list);***

***System.out.println(list.get(1));***

***System.out.println(list.get(5));***

***}***

***}***

**Q5: Create a list which can accept another list as an element.**

**List 1- 11,22,33**

**List 2- 9,19,29**

**List 3- 7,17,27**

**package base;**

**import java.util.ArrayList;**

**import java.util.HashSet;**

**import java.util.Set;**

**public class Assignment4**

**{**

**/\*Create a list which can accept another list as an element.**

**List 1- 11,22,33**

**List 2- 9,19,29**

**List 3- 7,17,27**

**Hint - ArrayList<ArrayList<Integer>> l1=new ArrayList<>();**

**\*/**

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

**ArrayList<Integer> list1=new ArrayList<>();**

**ArrayList<Integer> l2=new ArrayList<>();**

**ArrayList<Integer> l3=new ArrayList<>();**

**list1.add(11);**

**list1.add(22);**

**list1.add(33);**

**//The Original order of the list**

**System.out.println("The Original order of the list is :: "+ " "+ list1);**

**l2.add(9);**

**l2.add(19);**

**l2.add(29);**

**System.out.println(l2);**

**l2.addAll(list1);**

**System.out.println(l2);**

**l3.add(7);**

**l3.add(17);**

**l3.add(27);**

**l3.addAll(l2);**

**System.out.println(l3);**

**}**

**}**