Assignment 4

1. 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;

**import** java.util.ArrayList;

**import** java.util.List;

**import** java.util.ListIterator;

**public** **class** Assignment\_4Task\_1 {

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

// Create a list of String and print the values in reverse order

// Input â€“ Java, Selenium, TestNG, Git, Github

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

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

list.add("Java");

list.add("Selenium");

list.add("TestNG");

list.add("Git");

list.add("Github");

ListIterator<Object> li = list.listIterator();

**int** size = list.size();

**for** (**int** i = 1; i <= size; i++) {

li.next();

}

**while** (li.hasPrevious()) {

System.***out***.println(li.previous());

}

}

}

1. 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

Ans:

**package** assignment4;

**import** java.util.ArrayList;

**import** java.util.Iterator;

**import** java.util.List;

**import** java.util.Scanner;

**public** **class** Assignment\_4Task\_2 {

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

//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 â€“ Git, Github, GitLab,GitBash, Selenium, Java, Maven

//Output- Git, Github, Gitlab, GitBash

Scanner scanner = **new** Scanner(System.***in***);

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

list.add(scanner.next());

list.add(scanner.next());

list.add(scanner.next());

list.add(scanner.next());

list.add(scanner.next());

list.add(scanner.next());

list.add(scanner.next());

Iterator<Object> s=list.iterator();

**int** size = list.size();

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

Object save=s.next();

**if** (((String) save).contains("Git")) {

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

}

}

}

}

1. Write a program that will remove duplicate values from List

Input – Java, TestNG, Maven, Java,

Output – Java, TestNG, Maven

  Ans:

**package** assignment4;

**import** java.util.ArrayList;

**import** java.util.HashSet;

**import** java.util.List;

**import** java.util.Scanner;

**import** java.util.Set;

**public** **class** Assignment\_4Task\_3 {

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

// Write a program that will remove duplicate values from List

// Input â€“ Java, TestNG, Maven, Java,

// Output â€“ Java, TestNG, Maven

Scanner scanner = **new** Scanner(System.***in***);

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

list.add(scanner.next());

list.add(scanner.next());

list.add(scanner.next());

list.add(scanner.next());

// List<Object> newlist=new ArrayList<>();

// for(Object input:list)

// {

// if(!newlist.contains(input))

// {

// newlist.add(input);

// }

// }

// for(Object output:newlist)

// {

// System.out.println(output);

// }

Set<Object> newlist = **new** HashSet<>();

**for** (Object output : list) {

**if** (newlist.add(output) == **true**) {

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

}

}

}

}

1. 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** assignment4;

**import** java.util.ArrayList;

**import** java.util.HashSet;

**import** java.util.List;

**import** java.util.Scanner;

**import** java.util.Set;

**public** **class** Assignment\_4Task\_4 {

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

//Create a list of values and print the second element, second last element.

//Input â€“ 10,45, 90,45, 23, 90, 44

//Output â€“ 45,90

Scanner scanner = **new** Scanner(System.***in***);

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

list.add(scanner.next());

list.add(scanner.next());

list.add(scanner.next());

list.add(scanner.next());

list.add(scanner.next());

list.add(scanner.next());

list.add(scanner.next());

Set<Object> s=**new** HashSet<>();

**for**(Object input:list)

{

**if**(s.add(input)==**false**) {

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

}

}

}

}

1. 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<>();

Ans:

import java.util.ArrayList;

import java.util.ListIterator;

public class Assign\_4Task\_5 {

public static void main(String[] args) {

//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

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

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

ArrayList<Integer> list2 = new ArrayList<>();

ArrayList<Integer> list3 = new ArrayList<>();

list1.add(11);

list1.add(22);

list1.add(33);

list2.add(9);

list2.add(19);

list2.add(29);

list3.add(7);

list3.add(17);

list3.add(27);

list.add(list1);

list.add(list2);

list.add(list3);

ListIterator<ArrayList<Integer>> li = list.listIterator();

while (li.hasNext()) {

System.out.println(li.next());

}

}

}