# 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** seleniumWebdriver;

**import** java.util.ArrayList;

**import** java.util.Arrays;

**import** java.util.List;

**public** **class** list {

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

String[] prog = {"Java", "Selenium", "TestNG", "Git", "Github"};

List<String> prog1 = **new** ArrayList<String>();

prog1 = Arrays.*asList*(prog);

//System.out.println(prog1);

**for**(**int** i= prog1.size()-1; i>=0; i--) {

System.***out***.println(prog1.get(i));

}

}

}

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 seleniumWebdriver;

import java.util.ArrayList;

import java.util.Arrays;

import java.util.List;

import java.util.Scanner;

public class list2 {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

ArrayList<String> program1 = new ArrayList<String>();

for(int i = 0; i<7; i++) {

System.out.println("Please enter word: ");

String word = input.next();

program1.add(i, word);

}

System.out.println(program1);

ArrayList<String> program2 = new ArrayList<String>();

for(String s:program1) {

if(s.startsWith("git")||s.startsWith("Git")) {

program2.add(s);

}

}

System.out.println(program2);

}

}

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

Input – Java, TestNG, Maven, Java,

Output – Java, TestNG, Maven

Ans: package seleniumWebdriver;

import java.util.ArrayList;

import java.util.Arrays;

import java.util.HashSet;

import java.util.List;

public class list3 {

public static void main(String[] args) {

String[] prog = {"Java", "Maven", "TestNG", "Java"};

List<String> prog1 = new ArrayList<String>();

prog1 = Arrays.asList(prog);

System.out.println(prog1);

HashSet<String> prog2 = new HashSet<String>();

prog2.addAll(prog1);

System.out.println(prog2);

}

}

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 seleniumWebdriver;

import java.util.ArrayList;

import java.util.Arrays;

import java.util.HashSet;

import java.util.List;

public class list4 {

public static void main(String[] args) {

List<Integer> prog1 = new ArrayList<Integer>();

prog1.add(10);

prog1.add(45);

prog1.add(90);

prog1.add(45);

prog1.add(23);

prog1.add(90);

prog1.add(44);

System.out.println(prog1.get(1));

System.out.println(prog1.get(5));

}

}

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: package seleniumWebdriver;

import java.util.ArrayList;

import java.util.Arrays;

import java.util.HashSet;

import java.util.List;

public class list5 {

public static void main(String[] args) {

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

//Creating multiple arraylist

ArrayList<Integer> sublist1 =new ArrayList<Integer>();

sublist1.add(11);

sublist1.add(22);

sublist1.add(33);

ArrayList<Integer> sublist2 =new ArrayList<Integer>();

sublist2.add(9);

sublist2.add(19);

sublist2.add(29);

ArrayList<Integer> sublist3 =new ArrayList<Integer>();

sublist3.add(7);

sublist3.add(17);

sublist3.add(27);

//Adding arraylist into arraylist

list1.add(sublist1);

list1.add(sublist2);

list1.add(sublist3);

System.out.println(list1);

}

}