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**

Solution:

**package** assignment2;

**import** java.io.\*;

**import** java.util.\*;

**public** **class** Question1 {

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

List<String> abc = **new** ArrayList<>(

Arrays.*asList*("Java", "Selenium", "TestNG", "Git", "Github"));

System.***out***.println(

"Reverse order of given List :- ");

// the number list will be reversed using this method

Collections.*reverse*(abc);

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

}

}

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**

Solution:

**package** assignment2;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** Question2 {

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

String prefix = "Git";

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

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

l.add("Git");

l.add("Github");

l.add("Gitlab");

l.add("Gitbash");

l.add("Selenium");

l.add("Java");

l.add("Maven");

**for**(String s: l) {

**if**(s.startsWith(prefix)) {

result.add(s);

}

}

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

}}

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

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

**Output – Java, TestNG, Maven**

Solution:

**package** assignment2;

**import** java.util.ArrayList;

**import** java.util.Arrays;

**import** java.util.LinkedHashSet;

**import** java.util.Set;

**public** **class** Question3 {

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

// **TODO** Auto-generated method stub

ArrayList<String> abc = **new** ArrayList<>(Arrays.*asList*("Java", "TestNG", "Maven", "Java"));

System.***out***.println("ArrayList with duplicate elements: " + abc);

// convert the arraylist into a set

Set<String> set = **new** LinkedHashSet<>();

set.addAll(abc);

// delete al elements of arraylist

abc.clear();

// add element from set to arraylist

abc.addAll(set);

System.***out***.println("ArrayList without duplicate elements: " + abc);

}

}

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**

     Solution:

**package** assignment2;

**import** java.util.\*;

**public** **class** Question4 {

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

ArrayList al=**new** ArrayList();

al.add(10);

al.add(45);

al.add(90);

al.add(45);

al.add(23);

al.add(90);

al.add(44);

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

System.***out***.println(al.get(al.size()-2));

}

}

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<>();**

Solution:

**package** assignment2;

**import** java.util.ArrayList;

**import** java.util.Arrays;

**public** **class** Question5 {

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

ArrayList<Integer> abc = **new** ArrayList<>(Arrays.*asList*(11,22,33));

ArrayList<Integer> al = **new** ArrayList<>(Arrays.*asList*(9,19,29));

ArrayList<Integer> alc = **new** ArrayList<>(Arrays.*asList*(7,17,27));

ArrayList<ArrayList<Integer>> sdc = **new** ArrayList<>(Arrays.*asList*(abc,al,alc));

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

}

}