# 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**

**package** assignment4;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** Task1 {

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

// 1- Create a list of String and print the values in reverse order

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

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

languages.add("Java");

languages.add("Selenium");

languages.add("TestNG");

languages.add("Git");

languages.add("Github");

System.***out***.println("Before reverse :"+languages);

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

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

**package** assignment4;

**import** java.util.ArrayList;

**import** java.util.List;

// 2- 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

**public** **class** Task2 {

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

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

languages.add("Git");

languages.add("Github");

languages.add("GitLab");

languages.add("GitBash");

languages.add("Selenium");

languages.add("Java");

languages.add("Maven");

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

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

**if**(languages.get(i).startsWith("Git")) {

newlist.add(languages.get(i));

}

}

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

}

}

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

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

**Output – Java, TestNG, Maven**

**package** assignment4;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** Task3 {

// 3- Write a program that will remove duplicate values from List

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

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

languages.add("Java");

languages.add("TestNG");

languages.add("Maven");

languages.add("Java");

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

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

**if**(!newlist.contains(languages.get(i))) {

newlist.add(languages.get(i));

}

}

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

}

}

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**

**package** assignment4;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** Task4 {

// 4- Create a list of values and print the second element, second last element.

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

List<Integer> num = **new** ArrayList<>();

num.add(10);

num.add(45);

num.add(90);

num.add(45);

num.add(23);

num.add(90);

num.add(44);

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

**if**(i==1 || i == num.size()-2) {

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

}

}

}

}

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<>();