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:
import java.util.ArrayList;
public class AssignmentTasklist1 {
        public static void main(String[] args) {
               // Create a list of String and print the values in reverse order
               // Input – Java, <u>Selenium</u>, TestNG, <u>Git</u>, <u>Github</u>, c++
               // Output- Github, Git, TestNG, Selenium, Java
               ArrayList<String> input = new ArrayList<String>();
                input.add("Java");
                input.add("Selenium");
                input.add("TestNG");
                input.add("Git");
                input.add("Github");
                System.out.println("Original Array List:");
               for (int i = 0; i < input.size(); i++) {
                       System.out.println(input.get(i));
               }
                System.out.println();
               System.out.println();
               System.out.println("Reverse Array List:");
               for (int i = input.size() - 1; i >= 0; i--) {
                        System.out.println(input.get(i));
               }
```

```
}
}
Output:
Original Array List:
Java
Selenium
TestNG
Git
Github
Reverse Array List:
Github
Git
TestNG
Selenium
Java
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
       Input – Git, Github, GitLab, GitBash, Selenium, Java, Maven
       Output- Git, Github, Gitlab, GitBash
       Ans:
import java.util.ArrayList;
public class AssignmentTasknew6 {
       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 – Git, Github, GitLab, GitBash, Selenium, Java, Maven Output-
               * Git, Github, Gitlab, GitBash
               */
               ArrayList<String> str1 = new ArrayList<String>();
```

```
str1.add("Github");
               str1.add("GitLab");
               str1.add("GitBash");
               str1.add("Java");
               str1.add("Maven");
               System.out.println("List of elements: ");
               for (int i = 0; i < str1.size(); i++) {
                       System.out.println(str1.get(i));
               }
               System.out.println(" ");
               ArrayList<String> output = new ArrayList<String>();
               System.out.println("List of elements start with Git : ");
               for (int i = 0; i < str1.size(); i++) {
                       if (str1.get(i).startsWith("Git")) {
                               output.add(str1.get(i));
                              System.out.println(output.get(i));
                       }
               }
       }
}
Output:
List of elements:
Git
Github
GitLab
GitBash
Java
Maven
```

str1.add("Git");

```
List of elements start with Git:
Git
Github
GitLab
GitBash
3>Write a program that will remove duplicate values from List
       Input – Java, TestNG, Maven, Java,
       Output – Java, TestNG, Maven
Ans:
import java.util.ArrayList;
public class AssignmentTasknew8 {
       public static void main(String[] args) {
               // Write a program that will remove duplicate values from List
               // Input – Java, TestNG, Maven, Java,
               // Output – Java, TestNG, Maven
               // Get the ArrayList with duplicate values
               ArrayList<String> list = new ArrayList<String>();
               list.add("Java");
               list.add("TestNg");
               list.add("Maven");
               list.add("Java");
               // Create another ArrayList
               ArrayList<String> newlist = new ArrayList<>();
               // Run for each loop to itrate through each element of duplicate list
               // and store in new empty list
               for (String pl : list) {
                      if (!newlist.contains(pl))
                              newlist.add(pl);
```

```
}
              System.out.println("List of removed duplicate values: ");
              // retrieve element from obj
              for (String upl: newlist) {
                      System.out.println(upl);
              }
       }
}
Output:
List of removed duplicate values:
Java
TestNg
Maven
4>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:
import java.util.ArrayList;
public class AssignmentTasknew7 {
       public static void main(String[] args) {
              // Create a list of values and print the second element, second last
              // element.
              // Input – 10,45, 90,45, 23, 90, 44
              // Output - 45,90
              ArrayList<Integer> numbers = new ArrayList<Integer>();
               numbers.add(10);
               numbers.add(45);
```

```
numbers.add(90);
              numbers.add(45);
              numbers.add(23);
              numbers.add(90);
              numbers.add(44);
              System.out.println("Input List : " + numbers);
              int secondelement = numbers.get(1);
              System.out.println("Second Element :" + secondelement);
              int secondlastelement = numbers.get(numbers.size() - 2);
              System.out.println("Second Last Element :" + secondlastelement);
       }
}
Output:
Input List: [10, 45, 90, 45, 23, 90, 44]
Second Element: 45
Second Last Element:90
       5>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
   Ans:
package assignments;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;
public class AssignmentTask11 {
```

```
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
                List<List<Integer>> alllist = new ArrayList<>();
                List<Integer> |1 = Arrays.asList(11, 22, 33);
                List<Integer> |2 = Arrays.asList(9, 19, 29);
                List<Integer> | 3 = Arrays.asList(7, 17, 27);
                alllist.add(l1);
                alllist.add(l2);
                alllist.add(I3);
                System.out.println(alllist);
       }
}
    Output:
[[11, 22, 33], [9, 19, 29], [7, 17, 27]]
```