

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

Answer :

```
package Assignment3;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;

public class Third33 {

    public static void main(String[] args)

    {
        ArrayList<String> obj6= new ArrayList<String>();

        obj6.add("Java");
        obj6.add("Selenium");
        obj6.add("TestNG");
        obj6.add("Git");
        obj6.add("Github");

        System.out.println(obj6);
        for (int i=0;i<obj6.size();i++)
        {
            System.out.println(obj6.get(i));

        }

        Collections.reverse(obj6);
        System.out.println(obj6);

        for (int i=0;i<obj6.size();i++)
        {
            System.out.println(obj6.get(i));

        }

    }
}
```

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

Answer :

```
package Assignment3;

import java.util.ArrayList;

public class GIT {

    public static void main(String[] args)

    {

        ArrayList<String> obj9= new ArrayList<String>();

        obj9.add("Git");
        obj9.add("Github");
        obj9.add("GitLab");
        obj9.add("GitBash");
        obj9.add("Selenium");
        obj9.add("Java");
        obj9.add("Maven");

        System.out.println(obj9.get(0));
        System.out.println(obj9.get(1));
        System.out.println(obj9.get(2));
        System.out.println(obj9.get(3));

    }

}
```

3. Write a program that will remove duplicate values from List
Input – Java, TestNG, Maven, Java,
Output – Java, TestNG, Maven

Answer :

```
package Assignment3;

import java.util.ArrayList;

public class duplicate {

    public static void main(String[] args)
```

```

{
    ArrayList<String> obj9= new ArrayList<String>();

    obj9.add("Java");
    obj9.add("TestNG");
    obj9.add("Maven");
    obj9.add("Java");
    obj9.add("TestNG");
    obj9.add("Maven");

    System.out.println(obj9);

    ArrayList<String> obj10= new ArrayList<String>();

    for (String var4:obj9)
    {
        if(!obj10.contains(var4))
        {
            obj10.add(var4);
        }
    }

    for (String var5:obj10)
    {
        System.out.println(var5);
    }
}
}

```

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

Answer:

```

package Assignment3;

import java.util.ArrayList;

public class Last {

    public static void main(String[] args)
    {
        {
            ArrayList<Integer> obj9= new ArrayList<Integer>();

            obj9.add(10);

```

```

        obj9.add(45);
        obj9.add(90);
        obj9.add(45);
        obj9.add(23);
        obj9.add(90);
        obj9.add(44);

        System.out.println(obj9);

        System.out.println(obj9.get(1));
        System.out.println(obj9.get(5));
    }
}

```

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
 Hint - ArrayList<ArrayList<Integer>> l1=new ArrayList<>();

Answer :

```

package Assignment3;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;

public class Fiveeee {

    public static void main(String[] args)

    {
        ArrayList<Integer> list1=new ArrayList<Integer>();
        list1.add(11);
        list1.add(22);
        list1.add(33);

        System.out.println(list1);

        ArrayList<Integer> list2=new ArrayList<Integer>();
        list2.add(9);
        list2.add(19);
        list2.add(29);

        list2.addAll(list1);

        System.out.println(list2);
    }
}

```

```
ArrayList<Integer> list3=new ArrayList<Integer>();  
list3.add(7);  
list3.add(17);  
list3.add(27);  
  
list2.addAll(list3);  
  
System.out.println(list2);  
}  
}
```