

## 4 day of Practice

**Q.1 Write a program to add integer values to ArrayList.**

```
import java.util.ArrayList;
public class A {
    public static void main(String args[]) {
        ArrayList<Integer> data = new ArrayList<Integer>();
        data.add(10);
        data.add(5);
        data.add(100);
        data.add(5);

        for(Integer x : data){
            System.out.println(x);
        }
    }
}
```

**OUTPUT: 10,5,100,5**

**Q.2 print ArrayList in reverse order?**

```
import java.util.ArrayList;
public class A {
    public static void main(String args[]) {
        ArrayList<Integer> data = new ArrayList<Integer>();
        data.add(10);
        data.add(5);
        data.add(100);
        data.add(5);

        for(int i = data.size()-1; i>=0; i--){
            System.out.println(data.get(i));
        }
    }
}
```

**OUTPUT: 5,100,5,10**

### Q.3 Remove duplicate elements from ArrayList?

```
import java.util.ArrayList;
import java.util.HashSet;
public class A {
    public static void main(String args[]) {
        ArrayList<Integer> data = new ArrayList<Integer>();
        data.add(10);
        data.add(5);
        data.add(100);
        data.add(5);

        HashSet<Integer> arr = new HashSet<Integer>();

        for (int i = 0; i<data.size(); i++){
            arr.add(data.get(i));
        }

        System.out.println(arr);
    }
}
```

OUTPUT:[100,5,10]

### Q.4 Find how many Time number 5 is present in the given array list?

```
import java.util.ArrayList;
public class A {
    public static void main(String args[]) {
        ArrayList<Integer> data = new ArrayList<Integer>();
        data.add(10);
        data.add(5);
        data.add(100);
        data.add(5);

        int count= 0;
```

```

    for (int i = 0; i < data.size(); i++){
        if(data.get(i)==5){
            count++;
        }
    }
    System.out.println(count);
}
}

```

**OUTPUT: 2**

**Q.5 count no.of times the word mike is present in given String?**

```

import java.util.ArrayList;
public class A {
    public static void main(String args[]) {
        ArrayList<String> data = new ArrayList<String>();
        data.add("mike");
        data.add("stalin");
        data.add("mike");
        data.add("adam");

        int count= 0;
        for (int i = 0; i < data.size(); i++){
            if(data.get(i).equals("mike")){
                count++;
            }
        }

        System.out.println(count);
    }
}

```

**OUTPUT:2**

**Q.6 short the given string in array list?**

**Collections in java is a class which has lot of buildin methods using which i can manipulate collections. collections is a interface.**

```

import java.util.ArrayList;

```

```

import java.util.Collections;
public class A {
    public static void main(String args[]) {
        ArrayList<String> data = new ArrayList<String>();
        data.add("mike");
        data.add("stalin");
        data.add("mike");
        data.add("adam");

        Collections.sort(data);
        System.out.println(data);
    }
}

```

output: [adam, mike, mike, stalin]

Q.7 short the given string with removing duplicate in array list?

```

import java.util.ArrayList;
import java.util.Collections;
import java.util.TreeSet;
public class A {
    public static void main(String args[]) {
        ArrayList<String> data = new ArrayList<String>();
        data.add("mike");
        data.add("stalin");
        data.add("mike");
        data.add("adam");

        TreeSet<String> arr = new TreeSet<String>();
        for (int i = 0; i < data.size(); i++){
            arr.add(data.get(i));
        }
        System.out.println(arr);
    }
}

```

Output:[adam, mike, stallin]

**Q.8 Find the highest & lowest element in the array list?**

```
import java.util.ArrayList;
import java.util.Collections;
public class A {
    public static void main(String args[]) {
        ArrayList<Integer> data = new ArrayList<Integer>();
        data.add(1000);
        data.add(200);
        data.add(20);
        data.add(5000);

        Integer maxVal = Collections.max(data);
        Integer minVal = Collections.min(data);
        System.out.println(maxVal);
        System.out.println(minVal);
    }
}
```

**OUTPUT: 5000,20**

**Q.9 Give the name that start with 's' & end with letter 'm'?**

```
import java.util.ArrayList;
public class A {
    public static void main(String args[]) {
        ArrayList<String> data = new ArrayList<String>();
        data.add("mike");
        data.add("stalin");
        data.add("sam");
        data.add("adam");

        for (int i= 0; i< data.size(); i++){
            if (data.get(i).startsWith("s")){
                System.out.println(data.get(i));
            }
            if (data.get(i).endsWith("m")){
                System.out.println(data.get(i));
            }
        }
    }
}
```

```
}  
}
```

**OUTPUT: stalin ,sam, sam, adam**

**Q.10 In every word find the occurrence of letter a?[mike ,adam ,sam,]**

```
import java.util.ArrayList;  
public class A {  
    public static void main(String args[]) {  
        ArrayList<String> data = new ArrayList<String>();  
        data.add("mike");  
        data.add("adam");  
        data.add("sam");  
  
        for (int i = 0; i < data.size(); i++) {  
            String word = (data.get(i));  
            int count = 0;  
  
            for(int j=0; j<word.length(); j++){  
                if(word.charAt(j) == 'a'){  
                    count++;  
                }  
            }  
            System.out.println(word + "----"+count);  
        }  
    }  
}
```

**OUTPUT: mike----0  
adam----2  
sam-----1**

