1)Write a Java program that takes a list of integers as input and returns a list of duplicate integers.*/

```
/*import java.util.*;
class Q1{
public static void main(String args[]){
Scanner sc = new Scanner(System.in);
List<Integer> ls = new ArrayList<Integer>();//list declare kely
ls.add(1);
ls.add(2);
ls.add(2);
HashSet<Integer>seen = new HashSet<>();
HashSet<Integer>dublicate = new HashSet<>();
for (Integer s :ls){
System.out.println(s);
//System.out.println("after comparision:");
if(!seen.add(s)){
dublicate.add(s);
}
System.out.println("after comparision:");

System.out.println(dublicate);


}
}
```

Q2. 2)Create a Person class with attributes name and age. Write a Java program that sorts a list of Person objects first by age and then by name if the ages are equal.

```
*import java .util.*;

class Person{
        String name;
        int age;


        public Person(String name, int age)
        {
                this.name = name;
                this.age = age;
        }
        public String toString()
        {
    return "Person name='" + name + "', age=" + age + "";
  }


        public String getName(){
                        return name;
                }
                public int getAge(){
                        return age;
                }
        public static void main (String args[])
        {
```

```
                List<Person> stuList1 = new ArrayList<Person>();


                stuList1.add(new Person ("Rasika",27));
                stuList1.add(new Person ( "Satish", 51));
                stuList1.add(new Person ("Snehal", 28));

        stuList1.sort(Comparator.comparing(Person::getAge).thenComparing(Person::getName));


                for(Person p:stuList1)
                        {
                                System.out.println(p);
                        }
        }
}*/
```

Q44) Write a Java program that merges two sorted lists of integers into a single sorted list.

```
import java.util.*;
class Q1{
   public static void main(String args[]){
      Scanner sc = new Scanner(System.in);
      List<Integer>ls = new ArrayList<Integer>();
      List<Integer>ls2 = new ArrayList<Integer>();
      ls.add(1);
      ls.add(2);
      ls.add(3);
      ls2.add(4);
```

```
        ls.addAll(ls2);
        System.out.println(ls);
    }
}
```