

Collection Lab

```
public static void main(String[] args) {
    List<Integer> value = new ArrayList<>(){
        add(20);
        add(40);
        add(50);
        add(60);
    };
    for (int i : value){
        System.out.println(i);
    }
}

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/**
 *
 * @Question: We have 10 students at class 9 as follows.
 * Roll    Name                Address                Group
 * 01      Noor Alom Siddiky    Cashara, N.Gonj      Science
 * 02      Sakil Ahmed         Jatrabari, Dhaka     Science
 * 03      Mohib Billah        Banasree, Dhaka      Arts
 * 04      Anowar Masum        Polton, Dhaka        Commerce
 * 05      Syed Nasrul Islam    Jatrabari, Dhaka     Commerce
 * 06      Asf Ud Doulah       Shahjahanpur, Dhaka  Arts
 * 07      Sohel Ahmed         Banasree, Dhaka      Science
 * 08      Mafijur Rahman      Banasree, Dhaka      Science
 * 09      Sharif Ahmed Chow.  Mirpur-6, Dhaka      Commerce
 * 10      Mohsena Akter       Malibag, Dhaka       Arts
 *
 * A new student admitted into class 9 and his/her information as follows.
 *
 * Name                Address                Group
 * Thongya Murong      Dhanmondi, Dhaka      Commerce
 *
 * Now we need to provide him a roll number as 05.
 *
 * @Hints: Make Class Student
 */
public class Problem1 {
    public static void main(String[] args) {
        Student1[] s = {
            new Student1(1, "Noor Alom Siddiky", "Cashara, N.Gonj",
"Science"),
            new Student1(2, "Noor Alom Siddiky", "Cashara, N.Gonj", "Science"),
            new Student1(3, "Noor Alom Siddiky", "Cashara, N.Gonj", "Science"),
            new Student1(4, "Noor Alom Siddiky", "Cashara, N.Gonj", "Science"),
            new Student1(5, "Noor Alom Siddiky", "Cashara, N.Gonj", "Science"),
            new Student1(6, "Noor Alom Siddiky", "Cashara, N.Gonj", "Science"),
            new Student1(7, "Noor Alom Siddiky", "Cashara, N.Gonj", "Science"),
            new Student1(8, "Noor Alom Siddiky", "Cashara, N.Gonj", "Science"),
            new Student1(9, "Noor Alom Siddiky", "Cashara, N.Gonj", "Science"),
            new Student1(10, "Noor Alom Siddiky", "Cashara, N.Gonj", "Science")
        };
        // List<Student1> list = new ArrayList<>();
    }
}
class Student1{
    private int roll;
    private String name;
    private String address;
    private String group;
```



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        vec4.add(1);
        vec4.add(1);
        vec4.add(1);
        vec4.add(1);
        vec4.add(1);
        vec4.add(1);
        vec4.add(22);
        // let us print the capacity of the vector
        System.out.println("Capacity of the vector 1 is :"+vec1.capacity());
        System.out.println("Capacity of the vector 2 is :"+vec2.capacity());
        System.out.println("Capacity of the vector 3 is :"+vec3.capacity());
        System.out.println("Capacity of the vector 4 is :"+vec4.capacity());
    }
}

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import java.util.*;
/**
 * Created by noor on 12/31/17.
 */
public class Lab4 {
    public static void main(String[] args) {
        HashMap<Integer, String> lhmap = new HashMap<Integer, String>();
        lhmap.put(22, "Abey");
        lhmap.put(33, "Dawn");
        lhmap.put(1, "Sherry");
        lhmap.put(2, "Karon");
        lhmap.put(100, "Jim");
        for (Map.Entry map: lhmap.entrySet()){
            System.out.print( map.getKey() +"\t"
                +map.getValue()+"\n");
        }
        LinkedHashMap<Integer, String> lhmap2 = new LinkedHashMap<Integer, String>();
        lhmap2.put(22, "Abey");
        lhmap2.put(33, "Dawn");
        lhmap2.put(1, "Sherry");
        lhmap2.put(2, "Karon");
        lhmap2.put(100, "Jim");
        System.out.println();
        System.out.println("secound");
        System.out.println();
        for (Map.Entry map: lhmap2.entrySet()){
            System.out.print( map.getKey() +"\t"
                +map.getValue()+"\n");
        }
        TreeMap<Integer, String> lhmap3 = new TreeMap<Integer, String>();
        lhmap3.put(22, "Abey");
        lhmap3.put(33, "Dawn");
        lhmap3.put(1, "Sherry");
        lhmap3.put(2, "Karon");
        lhmap3.put(100, "Jim");
        System.out.println();
        System.out.println("Third");
        System.out.println();
        for (Map.Entry map: lhmap3.entrySet()){
            System.out.print( map.getKey() +"\t"
                +map.getValue()+"\n");
        }
    }
}

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/*
 * remove value more than 100 only using one line
 */
import java.util.*;
public class Lab1 extends ArrayList {
    public static void main(String[] args) {
        Lab1 arrlist = new Lab1();
        arrlist.add(10);
        arrlist.add(12);
        arrlist.add(4);
        arrlist.add(3);
        arrlist.add(31);
        arrlist.add(332);
        arrlist.add(121);
        arrlist.add(831);
        arrlist.add(81);
        arrlist.add(91);
        arrlist.removeRange(5,8);
        // print the list
        System.out.println("The list:" + arrlist);
    }
}

```
