

Torry-Harris-08

labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1633357388575#launchurl=Resources%2FLaunchca%2FQlcoSLUIOREIBURvcnJSLUhhcnjpcy04NyA...

calculator - CC.java

```
package demo;
import java.util.*;
public class CC {
    public static void main(String[] args) {
        List<String> list=new ArrayList<>();
        list.add("Mumbai");
        list.add("Pune");
        list.add("Delhi");
        list.add("Indore");
        list.add("Lucknow");
        System.out.println("Is element Indore in list : "+list.contains("Indore") );
        //list.remove(2);
    }
}
```

Run: CC

"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\lib\idea_rt.jar=63470:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\bin" -Didea.config.path=C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\config Is element Indore in list : true

Process finished with exit code 0

Torry-Harris-08

labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1633357388575#launchurl=Resources%2FLaunchca%2FQlcoSLUIOREIBURvcnJSLUhhcnjpcy04NyA...

calculator - DD.java

```
import java.util.HashSet;
public class DD {
    public static void main(String[] args) {
        HashSet<String> set=new HashSet<>();
        set.add("Mumbai");
        set.add("Pune");
        set.add("Delhi");
        set.add("Indore");
        set.add("Lucknow");
        //set.remove(2);
        System.out.println("The Length of the HashSet is :"+set.size());
    }
}
```

Run: DD

"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\lib\idea_rt.jar=63474:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\bin" -Didea.config.path=C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\config The Length of the HashSet is :5

Process finished with exit code 0

Torry-Harris-08

labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1633357388575#launchurl=Resources%2FLaunchca%2FQlcsLUIOREIBURvcnJ5Uhhcnjcy04NyA...

calculator - EE.java

```
package demo;

//import java.util.ArrayList;
import java.util.*;

public class EE {

    public static void main(String[] args) {
        Vector<Integer> v = new Vector<>();
        v.add(2);
        v.add(5);
        v.add(7);
        v.add(8);
        v.add(10);
        //Numbers.remove(2);
        System.out.println("The size of the vector elements is : " + v.size());
    }
}
```

Run: EE

"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\lib\idea_rt.jar=63482:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\bin" -Didea.config.path=C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\config\idea -Didea.home.path=C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\bin The size of the vector elements is : 5

Process finished with exit code 0

17:2 CR LF UTF-8 4 spaces 7:55 PM

Torry-Harris-08

labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1633357388575#launchurl=Resources%2FLaunchca%2FQlcsLUIOREIBURvcnJ5Uhhcnjcy04NyA...

calculator - FF.java

```
package demo;

import java.util.*;

public class FF {

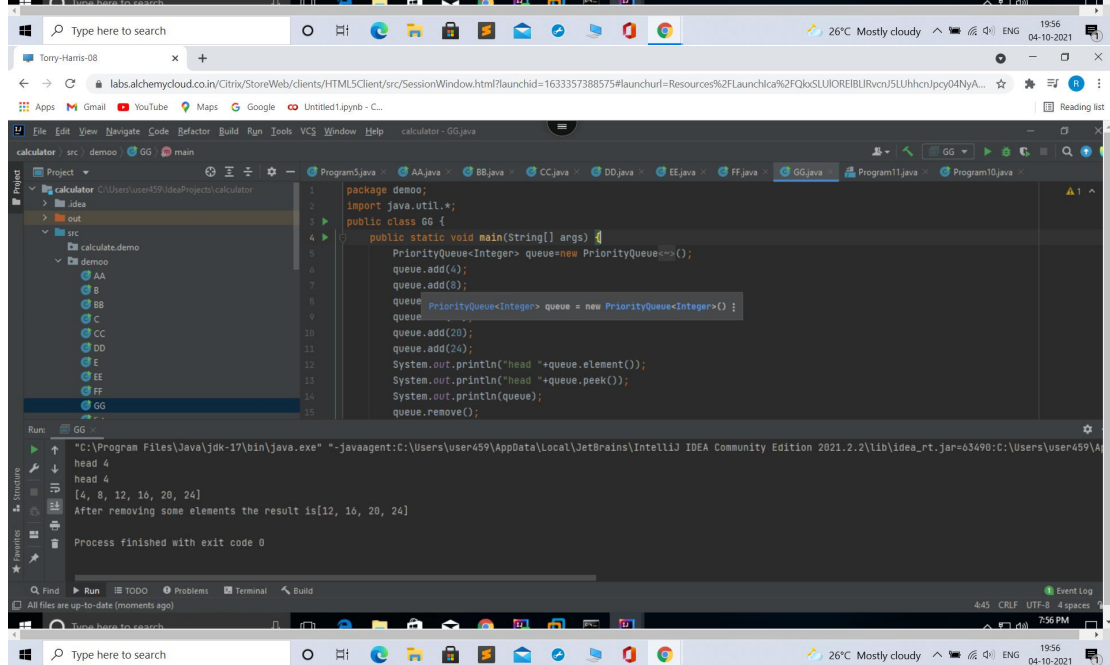
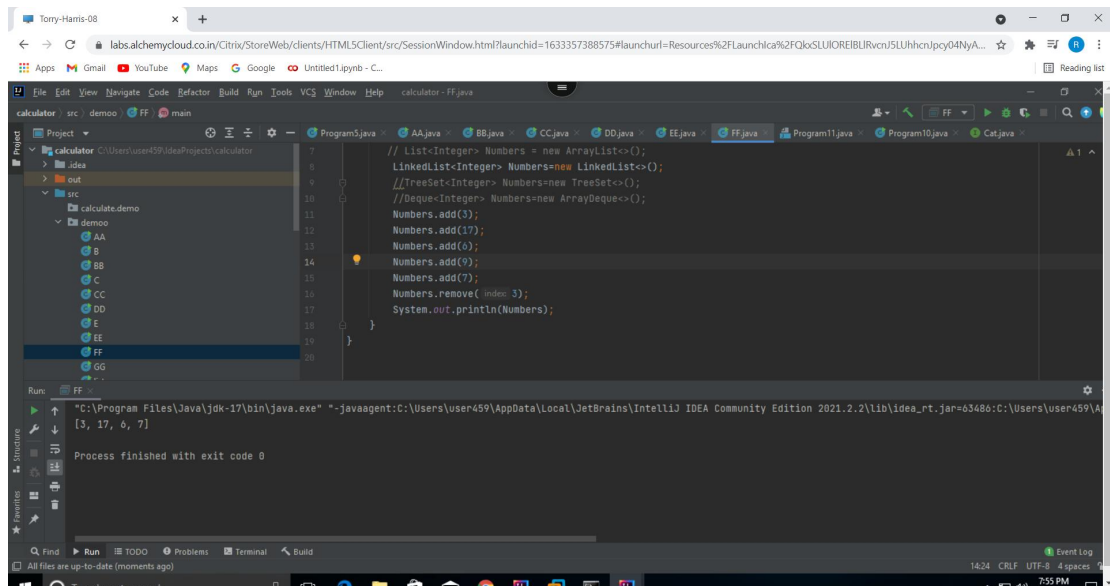
    public static void main(String[] args) {
        // List<Integer> Numbers = new ArrayList<>();
        // LinkedList<Integer> Numbers=new LinkedList<>();
        // TreeSet<Integer> Numbers=new TreeSet<>();
        // Deque<Integer> Numbers=new ArrayDeque<>();
        Numbers.add(3);
        Numbers.add(17);
        Numbers.add(6);
        Numbers.add(9);
        Numbers.add(7);
    }
}
```

Run: FF

"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\lib\idea_rt.jar=63486:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\bin" -Didea.config.path=C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\config\idea -Didea.home.path=C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\bin [3, 17, 6, 7]

Process finished with exit code 0

14:24 CR LF UTF-8 4 spaces 7:55 PM



Torry-Harris-08

labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1633357388575#launchurl=Resources%2FLaunchca%2FQlcsLUIOREIBURvcnJ5UUhcnjpcy04NyA...

calculator - GG.java

```
1 queue.add(4);
2 queue.add(8);
3 queue.add(12);
4 queue.add(16);
5 queue.add(20);
6 queue.add(24);
7 System.out.println("head "+queue.element());
8 System.out.println("head "+queue.peek());
9 System.out.println(queue);
10 queue.remove();
11 queue.poll();
12 System.out.println("After removing some elements the result is"+queue);
```

Run: GG

"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\lib\idea_rt.jar=63490:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\bin" -Didea.config.path=C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\config -Didea.system.path=C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\bin

head 4
head 4
[4, 8, 12, 16, 20, 24]
After removing some elements the result is[12, 16, 20, 24]
Process finished with exit code 0

Torry-Harris-08

labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1633357388575#launchurl=Resources%2FLaunchca%2FQlcsLUIOREIBURvcnJ5UUhcnjpcy04NyA...

calculator - Program1.java

```
1 package Hash;
2 import java.util.*;
3 public class Program1 {
4     public static void main(String[] args) {
5         HashMap<Integer, String> map = new HashMap<>();//Creating the hashmap
6         map.put(1, "Rahul");
7         map.put(2, "gnr");
8         map.put(3, "Family");
9         map.put(4, "GN");
10        System.out.println(map);
11    }
12 }
```

Run: Program1

"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\lib\idea_rt.jar=62861:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\bin" -Didea.config.path=C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\config -Didea.system.path=C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\bin

{1=Rahul, 2=gnr, 3=Family, 4=GN}
Process finished with exit code 0

Torry-Harris-08

labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1633357388575#launchurl=Resources%2FLaunchca%2FQlcsLUIOREIBURvcnJSLUhhcnjpcy04NyA...

Apps Gmail YouTube Maps Google Untitled1.pyb - C...

calculator - Program2.java

```
1 package Hash;
2 import java.util.*;
3 public class Program2 {
4     public static void main(String[] args) {
5         HashMap<Integer, String> map = new HashMap<Integer, String>(); //Creating the hashmap
6         map.put(1, "Rahul");
7         map.put(2, "gnr");
8         map.put(3, "Family");
9         map.put(4, "GN");
10        for (Map.Entry m : map.entrySet())
11        {
12            System.out.println(m.getKey() + " " + m.getValue());
13        }
14    }
15 }
```

Run: Program2

"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\lib\idea_rt.jar=62865:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\bin" -Didea.config.path=C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\config -Didea.system.path=C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\bin

1 Rahul
2 gnr
3 Family
4 GN

Process finished with exit code 0

13:10 CRLF UTF-8 4 spaces 7:56 PM

Torry-Harris-08

labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1633357388575#launchurl=Resources%2FLaunchca%2FQlcsLUIOREIBURvcnJSLUhhcnjpcy04NyA...

Apps Gmail YouTube Maps Google Untitled1.pyb - C...

calculator - Program3.java

```
1 package Hash;
2 import java.util.*;
3 public class Program3 {
4     Boolean CheckForKey(int keyToBeChecked)
5     {
6         HashMap<Integer, String> hashMap = new HashMap<>();
7         hashMap.put(1, "Rahul");
8         hashMap.put(2, "GN");
9         hashMap.put(3, "Family");
10        boolean result = hashMap.containsKey(keyToBeChecked);
11        return result;
12    }
13 }
14
15
```

Run: Program3

"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\lib\idea_rt.jar=62869:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\bin" -Didea.config.path=C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\config -Didea.system.path=C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\bin

true

Process finished with exit code 0

12:11 CRLF UTF-8 4 spaces 7:56 PM

Torry-Harris-08

labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1633357388575#launchurl=Resources%2FLaunchca%2FQlQxSLUIOREIBURvcnJSLUhhcnJpcy04NyA...

Apps Gmail YouTube Maps Google

calculator - Program4.java

```
package Hash;
import java.util.*;
public class Program4 {
    public static void main(String[] args) {
        HashMap<Integer, String> map = new HashMap<Integer, String>();
        map.put(1, "Rahul");
        map.put(2, "Family");
        map.put(3, "GMR");
        map.put(4, "Gowda");
        System.out.println("List of elements"+map);
        map.remove(3);
        //map.remove(3, "GMR");
        System.out.println("Updated list of elements"+map);
    }
}
```

Run: Program4

"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\lib\idea_rt.jar=62873:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\bin" -Didea.config.path=C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\config List of elements{1=Rahul, 2=Family, 3=GMR, 4=Gowda} Updated list of elements{1=Rahul, 2=Family, 4=Gowda}

Process finished with exit code 0

Find Run TODO Problems Terminal Build

All files are up-to-date (moments ago)

152 CRLF UTF-8 4 spaces 7:57 PM

Torry-Harris-08

labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1633357388575#launchurl=Resources%2FLaunchca%2FQlQxSLUIOREIBURvcnJSLUhhcnJpcy04NyA...

Apps Gmail YouTube Maps Google

calculator - Program5.java

```
package Hash;
import java.util.*;
public class Program5 {
    public static void main(String[] args) {
        HashMap<Integer, String> map = new HashMap<Integer, String>();
        map.put(1, "Rahul");
        map.put(2, "Family");
        map.put(3, "GMR");
        map.put(4, "Gowda");
        System.out.println("List of elements"+map);
        map.clear();
        System.out.println("Updated list of elements"+map);
    }
}
```

Run: Program5

"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\lib\idea_rt.jar=62877:C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\bin" -Didea.config.path=C:\Users\user459\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2021.2.2\config List of elements{1=Rahul, 2=Family, 3=GMR, 4=Gowda} Updated list of elements{}

Process finished with exit code 0

Find Run TODO Problems Terminal Build

All files are up-to-date (moments ago)

7:29 CRLF UTF-8 4 spaces 7:57 PM


```
package Hash;
import java.util.*;
public class Program6 {
    public static void main(String[] args) {
        List<Integer> values=new ArrayList<>();
        values.add(404);
        values.add(908);
        values.add(809);
        values.add(255);
        //Comparator<Integer> c=new Comparator<Integer>()
        // {
        //     public int compare(Integer i,Integer j)
        //     //Comparator<Integer> c=(Integer i,Integer j) -> //Lambda concept function
        // }
        // if(1<10)>j<10)
```

Run: Program6

404
908
809
255

Process finished with exit code 0

```
package Hash;
import java.util.*;
public class Program7 {
    public static void main(String[] args) {
        List<Integer> values = new ArrayList<>();
        values.add(404);
        values.add(908);
        values.add(809);
        values.add(255);
        Collections.sort(values);
        System.out.println("After sorting" + values);
    }
}
```

Run: Program7

After sorting[255, 404, 809, 908]

Process finished with exit code 0

