1. import java.util.ArrayList;

class praj{

  public static void main(String[] args){

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

    obj.add("Lion");

    obj.add("Bob Cat");

    obj.add("Tiger");

    obj.add(1,"DOG");//adding in the particluar index

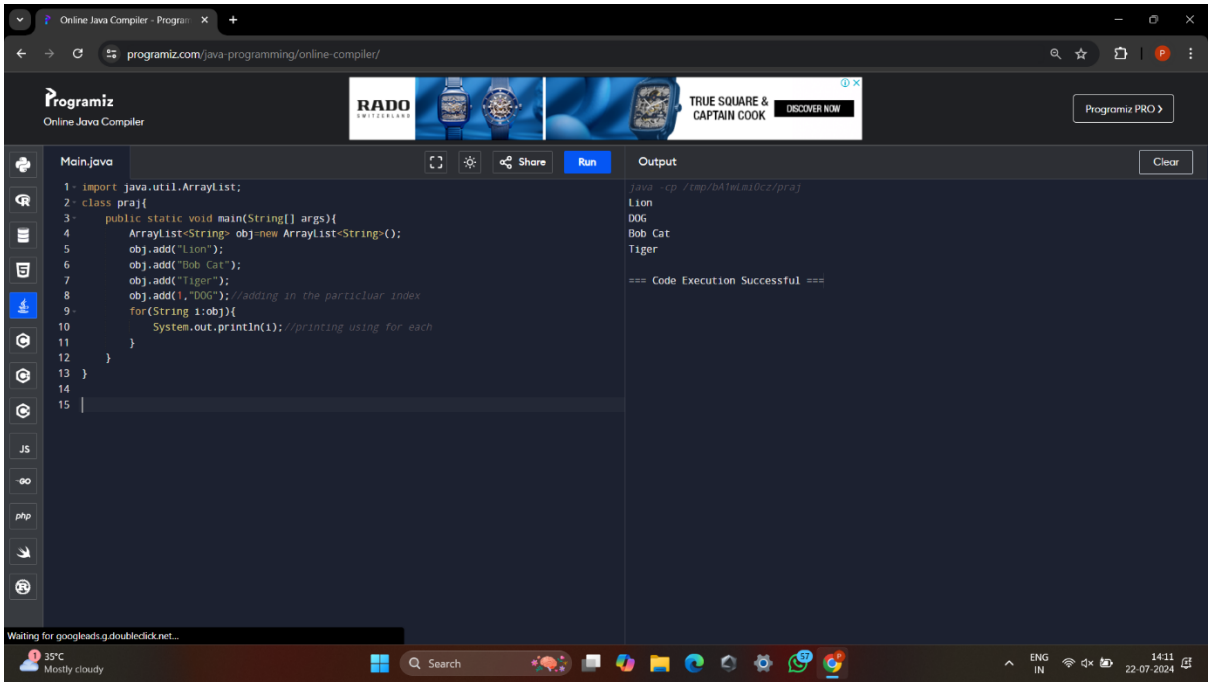
    for(String i:obj){

      System.out.println(i);//printing using for each

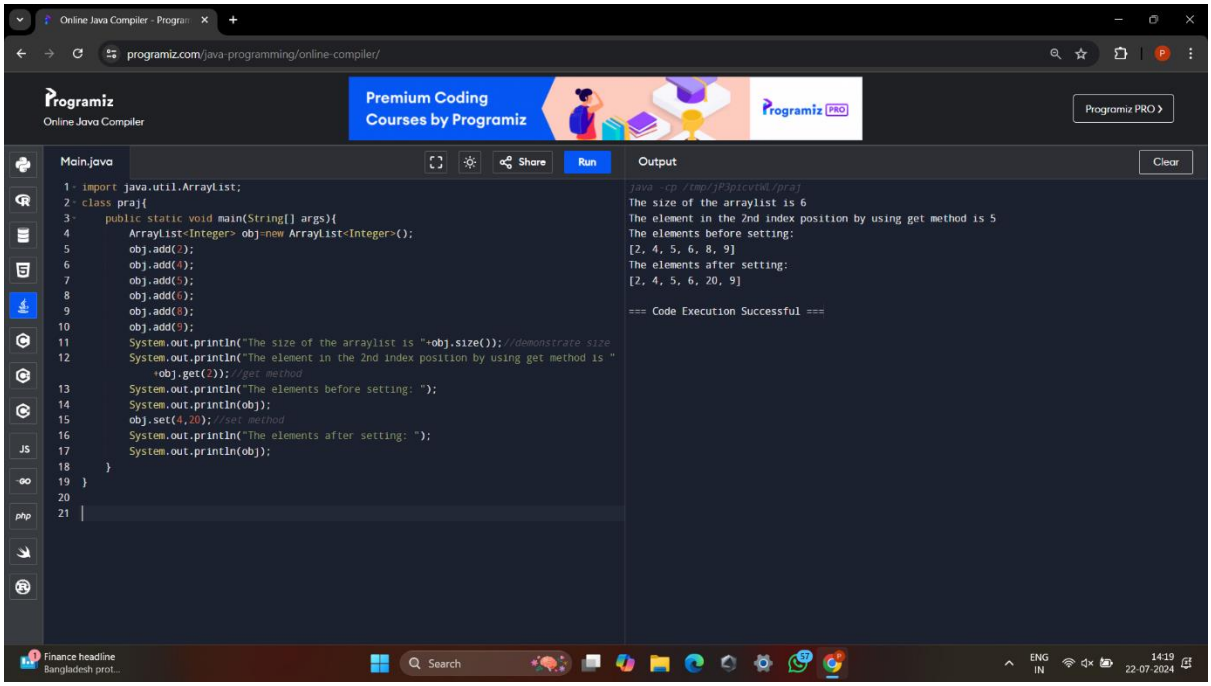
    }

  }

}



2.
```
import java.util.ArrayList;
class praj{
   public static void main(String[] args){
      ArrayList<Integer> obj=new ArrayList<Integer>();
      obj.add(2);
      obj.add(4);
      obj.add(5);
      obj.add(6);
      obj.add(8);
      obj.add(9);
      System.out.println("The size of the arraylist is "+obj.size());//demonstrate size
      System.out.println("The element in the 2nd index position by using get method is "+obj.get(2));//get method
      System.out.println("The elements before setting: ");
      System.out.println(obj);
      obj.set(4,20);//set method
      System.out.println("The elements after setting: ");
      System.out.println(obj);
   }
}
```



3. import java.util.ArrayList;

class praj{

public static void main(String[] args){

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

obj.add("C");

obj.add("C++");

obj.add("Java");

obj.add("Python");

obj.add("Ruby");

obj.add("Javascript");

System.out.println("The elements before removing: ");

System.out.println(obj);

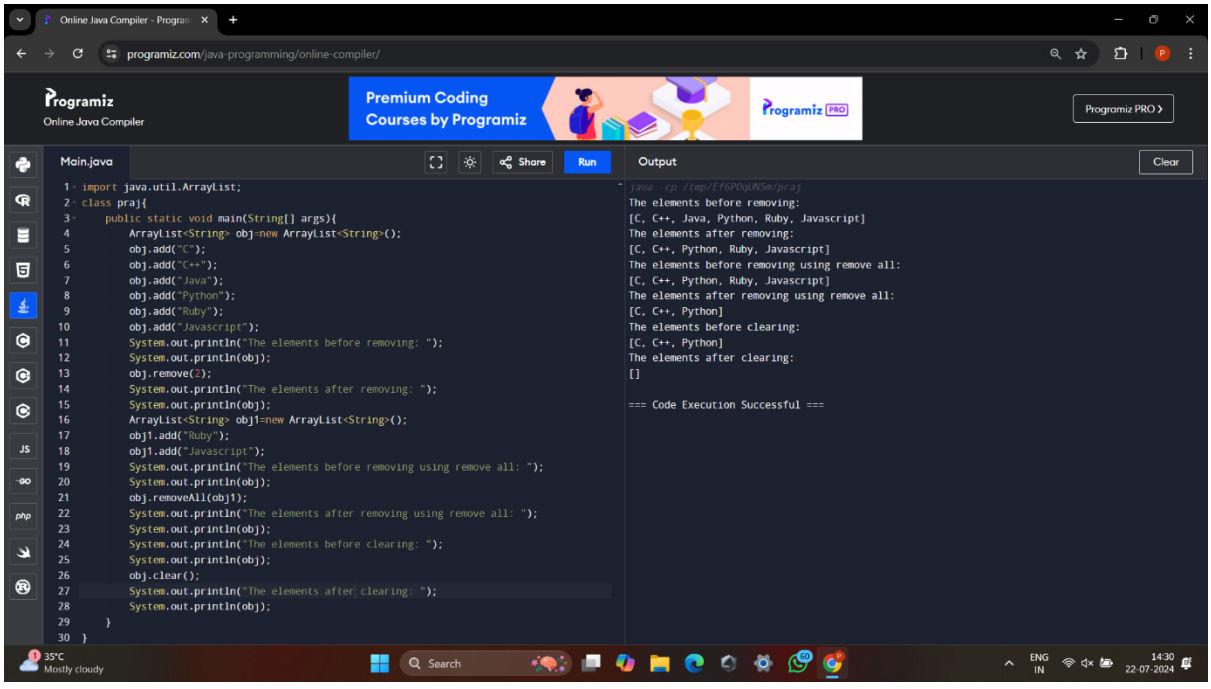
obj.remove(2);

System.out.println("The elements after removing: ");

System.out.println(obj);

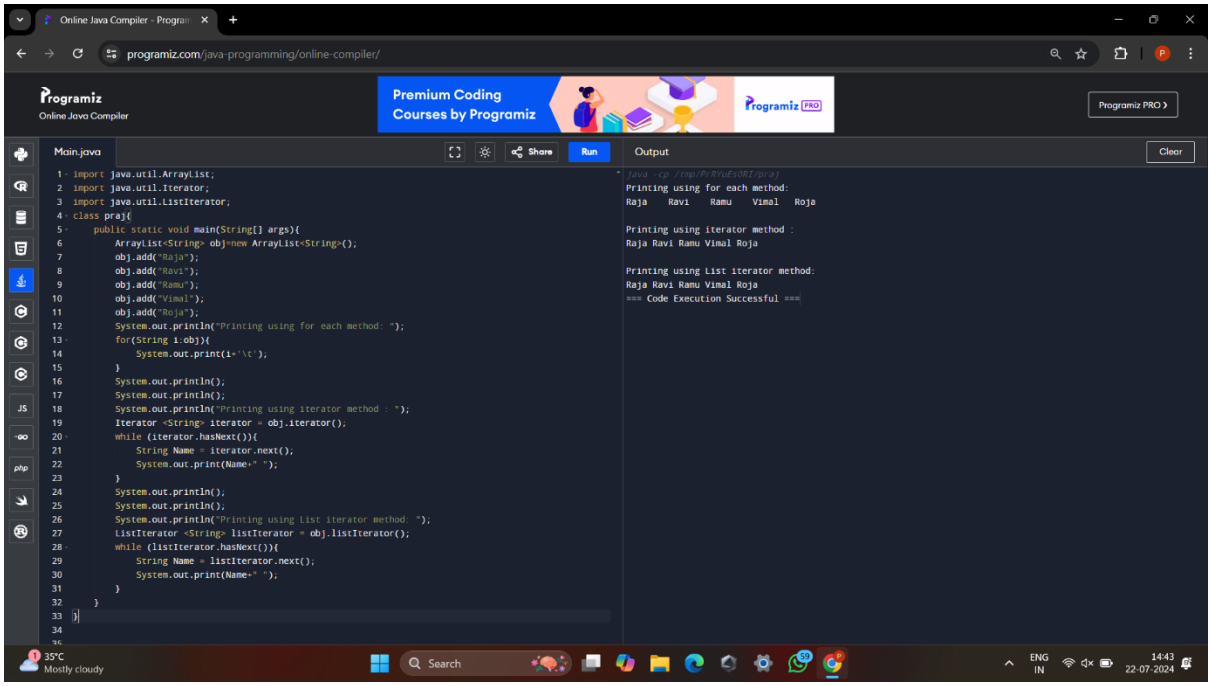
ArrayList<String> obj1=new ArrayList<String>();

```
        obj1.add("Ruby");
        obj1.add("Javascript");
        System.out.println("The elements before removing using remove all: ");
        System.out.println(obj);
        obj.removeAll(obj1);
        System.out.println("The elements after removing using remove all: ");
        System.out.println(obj);
        System.out.println("The elements before clearing: ");
        System.out.println(obj);
        obj.clear();
        System.out.println("The elements after clearing: ");
        System.out.println(obj);
    }
}
```



4.
```
import java.util.ArrayList;
import java.util.Iterator;
import java.util.ListIterator;
class praj{
   public static void main(String[] args){
      ArrayList<String> obj=new ArrayList<String>();
      obj.add("Raja");
      obj.add("Ravi");
      obj.add("Ramu");
      obj.add("Vimal");
      obj.add("Roja");
      System.out.println("Printing using for each method: ");
      for(String i:obj){
         System.out.print(i+'\t');
      }
      System.out.println();
      System.out.println();
      System.out.println("Printing using iterator method : ");
      Iterator <String> iterator = obj.iterator();
      while (iterator.hasNext()){
         String Name = iterator.next();
         System.out.print(Name+" ");
      }
      System.out.println();
      System.out.println();
      System.out.println("Printing using List iterator method: ");
      ListIterator <String> listIterator = obj.listIterator();
      while (listIterator.hasNext()){
         String Name = listIterator.next();
         System.out.print(Name+" ");
      }
```

```
    }
}
```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Main.java
Share
Run
Output
Clear
1 import java.util.ArrayList;
2 import java.util.Iterator;
3 import java.util.ListIterator;
4 class praj{
5 public static void main(String[] args){
6 ArrayList<String> obj=new ArrayList<String>();
7 obj.add("Raja");
8 obj.add("Ravi");
9 obj.add("Ramu");
10 obj.add("Vimal");
11 obj.add("Roja");
12 System.out.println("Printing using for each method: ");
13 for(String i:obj){
14 System.out.print(i+'\t');
15 }
16 System.out.println();
17 System.out.println();
18 System.out.println("Printing using iterator method : ");
19 Iterator <String> iterator = obj.iterator();
20 while (iterator.hasNext()){
21 String Name = iterator.next();
22 System.out.print(Name+" ");
23 }
24 System.out.println();
25 System.out.println();
26 System.out.println("Printing using List iterator method: ");
27 ListIterator <String> listIterator = obj.listIterator();
28 while (listIterator.hasNext()){
29 String Name = listIterator.next();
30 System.out.print(Name+" ");
31 }
32 }
33 }
34
Printing using for each method:
Raja Ravi Ramu Vimal Roja
Printing using iterator method :
Raja Ravi Ramu Vimal Roja
Printing using List iterator method:
Raja Ravi Ramu Vimal Roja
=== Code Execution Successful ===
35°C
Mostly cloudy
Search
ENG
IN
14:43
22-07-2024