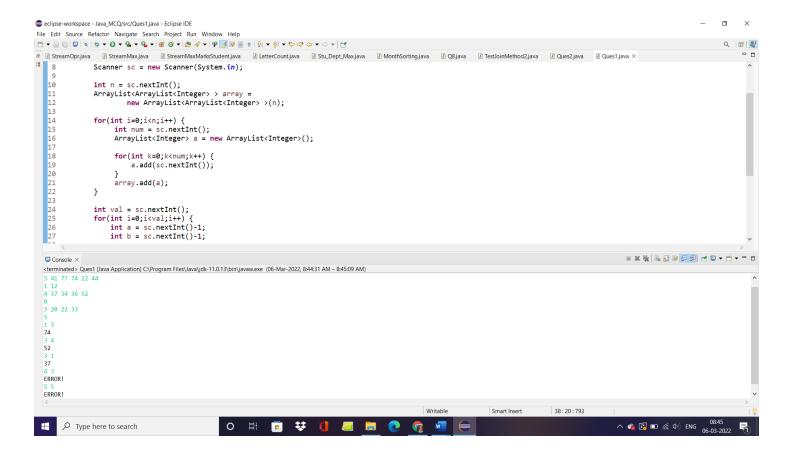
JAVA CODING ASSESSMENT

Q1.

```
import java.util.ArrayList;
import java.util.Scanner;
public class Ques1 {
     public static void main(String[] args) {
           Scanner sc = new Scanner(System.in);
           int n = sc.nextInt();
           ArrayList<ArrayList<Integer> > array =
                new ArrayList<ArrayList<Integer> >(n);
           for(int i=0;i<n;i++) {</pre>
                  int num = sc.nextInt();
                  ArrayList<Integer> a = new ArrayList<Integer>();
                  for(int k=0;k<num;k++) {</pre>
                       a.add(sc.nextInt());
                  }
                  array.add(a);
           }
```

```
int val = sc.nextInt();
           for(int i=0;i<val;i++) {</pre>
                 int a = sc.nextInt()-1;
                 int b = sc.nextInt()-1;
                 if(b>(array.get(a).size()) - 1) {
                      System.out.println("ERROR!");
                 }
                 else {
                      System.out.println(array.get(a).get(b));
                 }
           }
           sc.close();
     }
}
```

<u>OUTPUT –</u>



Q2.

```
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
import java.util.Scanner;

public class Ques2 {
    public static void main(String[] args) {
        List<Integer> l = new ArrayList<>();
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        for(int i=0;i<n;i++) {</pre>
```

```
1.add(sc.nextInt());
           }
           int val = sc.nextInt();
           for(int i=1;i<=val;i++) {</pre>
                 String s = sc.next();
                 if(s.equals("Insert")) {
                       int a = sc.nextInt();
                       int b = sc.nextInt();
                       1.add(a,b);
                       }
                 else {
                       int c = sc.nextInt();
                      1.remove(c);
                 }
           }
           System.out.println("The final list output = ");
             Iterator<Integer> iter = 1.iterator();
              while(iter.hasNext()) {
                 System.out.print(iter.next()+" ");
              }
          sc.close();
     }
}
```

OUTPUT -

```
eclipse-workspace - Java_MCQ/src/Ques2.java - Eclipse IDE
Q 🕍 🐉
# 🖟 🗜 StreamOprjava 🗜 StreamMaxjava 🖟 StreamMaxjava 🖟 StreamMaxjava 🖟 StreamMaxjava 🖟 StreamMaxjava 🖟 StreamMaxjava 🖟 MonthSortingjava 🖟 Q8java 🖟 TestJoinMethod2java 🖟 Ques2java x
              int n = sc.nextInt();
              for(int i=0;i<n;i++) {
    l.add(sc.nextInt());</pre>
               int val = sc.nextInt();
for(int i=1;i<=val;i++) {</pre>
                    String s = sc.next();
                    if(s.equals("Insert")) {
   int a = sc.nextInt();
   int b = sc.nextInt();
                         1.add(a,b);
                    else {
   int c = sc.nextInt();
                        1.remove(c);
                    }
   34
35
                System.out.println("The final list output = ");
  36
                                                                                                                                                                    □ Console ×
  <terminated> Ques2 [Java Application] C:\Program Files\Java\jdk-11.0.13\bin\javaw.exe (06-Mar-2022, 8:47:38 AM – 8:48:01 AM)
  12 0 1 78 12
  Insert
  The final list output = 0 1 78 12 23
                                                                                                                                                                 へ 🧣 🔁 🗖 🦟 (中) ENG 08:48 06-03-2022

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```

Q3.

```
import java.util.HashMap;
import java.util.Scanner;

public class Ques3 {

    public static void main(String[] args) {
        HashMap<String, Integer> hash = new HashMap<>();
        Scanner sc = new Scanner(System.in);
        int n=sc.nextInt();
        sc.nextLine();
        for(int i=0;i<n;i++)
        {
            String name=sc.nextLine();
            int phoneNo=sc.nextInt();
            sc.nextLine();
            roc.nextLine();
            roc.nextLine();
```

```
hash.put(name,phoneNo);
}
while(sc.hasNext())
{
    String str=sc.nextLine();
    try
    {
        int out=hash.get(str);
        System.out.println(str+"="+out);
    }
    catch(Exception e)
    {
        System.out.println("Not found");
    }
}
sc.close();
}
```

OUTPUT –

