```
//Question 1.................

public class Main {

    static String getNbr(String str)
    {

        str = str.replaceAll("[^\\d]", " ");

        str = str.trim();

        str = str.replaceAll(" +", " ");

        return str;
    }

    public static void main(String[] args)
    {
        String str = ": 75#41*";
        System.out.print(getNbr(str));
    }
}

//output:.........

7541

//Question 2.................

public class LowerUpperDemo {
        public static void main(String args[]) {
                String input = "java is best";
                System.out.println("Lower case string is : " + input);
                char strArr[] = input.toCharArray();
                for (int i = 0; i < strArr.length; i++) {

                       if (strArr[i] >= 'a' && strArr[i] <= 'z') {
                         strArr[i] = (char) ((int) strArr[i] - 32);
                       }
                }
                System.out.print("Upper case string is : ");

                for (int i = 0; i < strArr.length; i++) {
                        System.out.print(strArr[i]);
                }
        }
}

//output:.........

Lower case string is : java is best
Upper case string is : JAVA IS BEST

//Question 3.................

import java.util.regex.Pattern;
public class Exp {


    static String reverseWords(String str)
    {


        Pattern pattern = Pattern.compile("\\s");
```

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        String[] temp = pattern.split(str);
        String result = "";


        for (int i = 0; i < temp.length; i++) {
            if (i == temp.length - 1)
                result = temp[i] + result;
            else
                result = " " + temp[i] + result;
        }
        return result;
    }


    public static void main(String[] args)
    {
        String s1 = " I am a developer";
        System.out.println(reverseWords(s1));


    }
}

//Output:............

 developer a am I

//Question 4.................

public class DuplStr {
 public static void main(String args[]) {

  String str = "welcome home";
  int cnt = 0;
  char[] inp = str.toCharArray();
  System.out.println("Duplicate Characters are:");
  for (int i = 0; i < str.length(); i++) {
   for (int j = i + 1; j < str.length(); j++) {
    if (inp[i] == inp[j]) {
     System.out.println(inp[j]);
     cnt++;
     break;
    }
   }
  }
 }
}

//output:........

Duplicate Characters are: o m e

//Question 5.................

import java.io.*;

public class vowel {
      public static void main(String[] args)
            throws IOException
      {
            String str = "hello world";
            str = str.toLowerCase();
```

```
            int count = 0;

            for (int i = 0; i < str.length(); i++) {

                  if (str.charAt(i) == 'a' || str.charAt(i) == 'e'
                        || str.charAt(i) == 'i'
                        || str.charAt(i) == 'o'
                        || str.charAt(i) == 'u') {
                        count++;
                  }
            }


            System.out.println(
                  "Total no of vowels in string are: " + count);
      }
}

//output:.........

Total no of vowels in string are: 3


//Question 6..................

import java.io.*;

class RemoveWord {

      static void remove(String str, String word)
      {

            String msg[] = str.split(" ");
            String new_str = "";

            for (String words : msg) {

                  if (!words.equals(word)) {

            new_str += words + " ";
                  }
            }

            System.out.print(new_str);
      }

      public static void main(String[] args)
      {

            String str = "where is the ground";

            String word = "the";

            remove(str, word);
      }
}

//output:.......

where is ground


//Question 7..................
```

```
public class RemoveFirstLastCharcter1
{
public static void main(String args[])
{
String string = "Go straight and take left";

StringBuffer sb= new StringBuffer(string);

sb.deleteCharAt(1,sb.length()-1);

System.out.println(sb);
}
}

//output:.......

o straight and take lef
```