29th july assignment

4)

```
import java.util.ArrayList;
  import java.util.List;
  public class PrinitProblem {
 public static void main(String[] args) {
  // TODO Auto-generated method stub
 print(11);
11 public static void print(int n ){
12List<String> list = null;
13 \text{ if}(n <= 0){
14 System.out.println("Please provide a valid number
15 return;
16 }else{
17 list = new ArrayList<String>();
18 list.add("1"); //intialize
19 }
20 \text{ for(int i = 0; i < n; i++)}{}
21 String newInt = counter(list.get(i));
22 list.add(newInt);
23 }
24 System.out.println(list);
27 private static String counter(String integer) {
28 if(integer == null){
29 return null;
30 }
31String str = integer.toString();
32 String lastValue=null;
33 int counter = 1;
34 String newstr = <mark>""</mark>;
35 for(int i = 0; i < str.length(); i ++){
36 lastValue = str.substring(i,i+1);
37_if(i+1 < str.length()){
38 String nextValue = str.substring(i+1,i+2);
39 if(lastValue.equalsIgnoreCase(nextValue)){
40 counter++;
41 }else{
42 newstr = newstr + counter+""+lastValue;
43 \text{ counter} = 1;
44 }
```

```
46 else{
47 newstr = newstr+"" + counter+""+lastValue;
48 }
49 }
50 return newstr;
51 }
52
53 }
54 // This code is created by AASHISH //
```

```
[1, 11, 21, 1211, 111221, 312211, 13112221, 7]
Process finished.
```

```
import java.io.*;
  import java.util.*;
  class ReverseWords{
  // reverses individual words of a string
10 static void reverseWords(String str)
      Stack<Character> st=new Stack<Character>();
      for (int i = 0; i < str.length(); ++i) {
          if (str.charAt(i) != ' ')
              st.push(str.charAt(i));
          else {
              while (st.empty() == false) {
                  System.out.print(st.pop());
              System.out.print(" ");
          }
     while (st.empty() == false) {
          System.out.print(st.pop());
      }
36 }
38 public static void main(String[] args)
39 {
     String str = "hello how are you doing. Hope a
      reverseWords(str);
```

```
String str = "hello how are you doing. Hope al
reverseWords(str);

44

45 }

46 }

47 // This code is created by AASHISH //
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