1.

public class solution {

public int lengthOfLastWord(final String a)

{

int len = 0;

/\* String a is 'final'-- can not be modified

So, create a copy and trim the spaces from

both sides \*/

String x = a.trim();

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

if (x.charAt(i) == ' ')

len = 0;

else

len++;

}

return len;

}

// Driver code

public static void main(String[] args)

{

String input = "Hello World ";

GFG gfg = new GFG();

System.out.println("The length of last word is "

+ gfg.lengthOfLastWord(input));

}

}

2.

class Solution {

public static int climbStairs(int n) {

if(n<=0){

return 0;

}

else if (n == 1) {

return 1;

}

else{

int[] steps = new int[n + 1];

steps[0] = 1;

steps[1] = 1;

for (int i = 2; i <= n; i++) {

steps[i] = steps[i - 2] + steps[i - 1];

}

}

return steps[n];

}

public static void main(String[] args) {

int n=3;

System.out.println(climbStairs(n));

}

}