

# Rajalakshmi Engineering College

Name: SIVAGURU D  
Email: 240701517@rajalakshmi.edu.in  
Roll no: 240701517  
Phone: 9345616842  
Branch: REC  
Department: CSE - Section 7  
Batch: 2028  
Degree: B.E - CSE

Scan to verify results



## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 4\_Q4

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Arjun is learning how to filter words from a sentence based on grammar rules. He wants to identify the valid words in a sentence.

A word is considered valid if it satisfies all these conditions:

The word contains only alphabets (a-z, A-Z). The word length is at least 2 characters. The word should not contain digits or special characters.

Your task is to read a sentence and print all the valid words in it.

##### ***Input Format***

The input contains a single line containing a sentence S.

##### ***Output Format***

The output prints all the valid words separated by spaces.

If no valid word exists, print "No valid words."

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: Hello world1 123 ab" @#\$ Hi

Output: Hello Hi

### **Answer**

```
import java.util.*;
class Main{
    public static void main(String args[])
    {
        Scanner s = new Scanner(System.in);
        String a=s.nextLine();
        String[] b = a.split(" ");
        boolean d=true;
        for(String c:b)
        {
            if(c.matches("[a-zA-z]+" ) && c.length()>=2){
                System.out.print(c+" ");
                d=false;
            }
        }
        if(d)
            System.out.println("No valid words.");
    }
}
```

**Status :** Correct

**Marks :** 10/10