

# Rajalakshmi Engineering College

Name: jayaraman S  
Email: 240701210@rajalakshmi.edu.in  
Roll no: 2116240701210  
Phone: 9080708226  
Branch: REC  
Department: CSE - Section 5  
Batch: 2028  
Degree: B.E - CSE

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## 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.*;
public class Main{
    public static String isValid(String str){
        String parts[]=str.split(" ");
        String result="";
        for(String i: parts){
            if(i.matches("[a-zA-Z]+" ) && i.length()>=2){
                result=result.concat(i).concat(" ");
            }
        }
        if(result.isEmpty()){
            return "No valid words.";
        }else{
            return result;
        }
    }
    public static void main(String[] args){
        Scanner ip=new Scanner(System.in);
        String s=ip.nextLine();
        String result=isValid(s);
        System.out.println(result);
        ip.close();
    }
}
```

**Status :** Correct

**Marks :** 10/10