

# Rajalakshmi Engineering College

Name: RANNESH KHUMAR B R  
Email: 240701422@rajalakshmi.edu.in  
Roll no: 2116240701  
Phone: 9042350670  
Branch: REC  
Department: CSE - Section 8  
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**

```
// You are using Java
import java.util.*;
class main{
    public static void main(String[] args){
        Scanner scan=new Scanner(System.in);
        String[] words=scan.nextLine().split(" ");
        StringBuilder res= new StringBuilder();

        for(String word: words){
            if(word.length()>=2){
                boolean check=true;

                for(char c:word.toCharArray()){
                    if(!Character.isLetter(c)){
                        check=false;
                        break;
                    }
                }
                if(check){
                    res.append(word+" ");
                }
            }
        }
        if(res.length()==0){
            System.out.print("No valid words.");
        }
        else{
            System.out.print(res);
        }
    }
}
```

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}

**Status : Correct**

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**Marks : 10/10**

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