

# Rajalakshmi Engineering College

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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.*;
class main{
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        String line=sc.nextLine();
        sc.close();
        String[] words=line.split(" ");
        boolean anyPrinted=false;
        for(int i=0;i<words.length;i++){
            String word=words[i];
            if(word.length()>=2){
                boolean lettersOnly=true;
                for(int j=0;j<word.length();j++){
                    char c=word.charAt(j);
                    if(!Character.isLetter(c)){
                        lettersOnly=false;
                        break;
                    }
                }
                if(lettersOnly){
                    if(anyPrinted) System.out.print(" ");
                    System.out.print(word);
                    anyPrinted=true;
                }
            }
        }
        if(!anyPrinted){
            System.out.print("No valid words.");
        }
    }
}
```

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}  
}

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**Status :** Correct

**Marks :** 10/10

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