Rajalakshmi Engineering College

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Batch: 2028

Degree: B.E - CSE



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.Scanner;
class ValidWordsFilter {
  public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    String sentence = sc.nextLine();
    String[] words = sentence.split(" ");
    StringBuilder result = new StringBuilder();
    for (String word: words) {
      if (isValidWord(word)) {
         result.append(word).append(" ");
    if (result.length() > 0)
       System.out.println(result.toString().trim());
    } else {
       System.out.println("No valid words.");
  }
  private static boolean isValidWord(String word) {
    if (word.length() < 2) {
       return false;
   for (char ch : word.toCharArray()) {
       if (!Character.isLetter(ch)) {
         return false;
```

return true; } }	240101348	240101348	240701348
Status : Correct			Marks : 10/10
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