

# Rajalakshmi Engineering College

Name: Rakshitha RD  
Email: 241501163@rajalakshmi.edu.in  
Roll no: 241501163  
Phone: 9444821024  
Branch: REC  
Department: AI & ML - Section 1  
Batch: 2028  
Degree: B.E - AI & ML

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

### 2028\_REC\_OOPS using Java\_Week 4\_Q5

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

In a secure banking system, customers are required to create PIN codes for accessing their accounts. The bank wants to validate these PIN codes before accepting them.

A PIN code is considered valid if:

It consists of exactly 4 digits. All characters must be numeric (0–9). It cannot contain all identical digits (e.g., 1111 is invalid).

Your task is to determine whether each PIN code in the list is valid or not.

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

The first line of input contains an integer T, representing the number of PIN codes to check.

The next T lines each contain a string S, representing a PIN code.

### **Output Format**

For each PIN code S, the output print "YES" if it is valid.

Otherwise, the output print "NO".

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 1

1234

Output: YES

### **Answer**

// You are using Java

import java.util.\*;

```
public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        int T = sc.nextInt();
        sc.nextLine(); // consume newline

        for (int i = 0; i < T; i++) {
            String pin = sc.nextLine().trim();

            if (isValidPin(pin)) {
                System.out.println("YES");
            } else {
                System.out.println("NO");
            }
        }

        sc.close();
    }
}
```

```
// Function to validate PIN
private static boolean isValidPin(String pin) {
    // Rule 1: Must be 4 characters long
    if (pin.length() != 4) {
        return false;
    }

    // Rule 2: Check all are digits
    for (char c : pin.toCharArray()) {
        if (!Character.isDigit(c)) {
            return false;
        }
    }

    // Rule 3: Not all digits identical
    char first = pin.charAt(0);
    boolean allSame = true;
    for (char c : pin.toCharArray()) {
        if (c != first) {
            allSame = false;
            break;
        }
    }

    return !allSame;
}
```

**Status :** Correct

**Marks :** 10/10