

# Rajalakshmi Engineering College

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

### 2028\_REC\_OOPS using Java\_Week 2\_Q8

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### **Section 1 : Coding**

##### **1. Problem Statement**

A bank generates secure codes using 3-digit numbers where each digit is unique, and the code must be divisible by 3. You are tasked with generating the first N such codes based on user input, ensuring the digits are unique and the number is divisible by 3.

Note: Use nested for loops to solve.

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

The first line contains an integer N representing the number of valid codes to generate.

##### ***Output Format***

The output prints N lines, each line contains a valid 3-digit code.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 5

Output: 102

105

108

120

123

### **Answer**

```
// You are using Java
import java.util.Scanner;
class Main{
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int N = scanner.nextInt();
        int count = 0;
        int number = 100;
        while (count < N && number <= 999) {
            int hundreds = number / 100;
            int tens = (number / 10) % 10;
            int units = number % 10;
            if (hundreds != tens && hundreds != units && tens != units) {
                if ((hundreds + tens + units) % 3 == 0) {
                    System.out.println(number);
                    count++;
                }
            }
            number++;
        }
    }
}
```

**Status : Correct**

**Marks : 10/10**