

# Rajalakshmi Engineering College

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Batch: 2028

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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;
```

```
public class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int N = scanner.nextInt();
        int count = 0;

        for (int i = 100; i <= 999 && count < N; i++) {
            int digit1 = i / 100;
            int digit2 = (i / 10) % 10;
            int digit3 = i % 10;

            if (digit1 != digit2 && digit1 != digit3 && digit2 != digit3) {
                if (i % 3 == 0) {
                    System.out.println(i);
                    count++;
                }
            }
        }
    }
}
```

**Status :** Correct

**Marks :** 10/10