

# Rajalakshmi Engineering College

Name: Sivaranjani M  
Email: 241901109@rajalakshmi.edu.in  
Roll no: 241901109  
Phone: 7397469288  
Branch: REC  
Department: CSE (CS) - Section 2  
Batch: 2028  
Degree: B.E - CSE (CS)

Scan to verify results



## 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**

```
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int N = sc.nextInt();
        int count = 0;
        for (int num = 100; num <= 999 && count < N; num++) {
            int a = num / 100;
            int b = (num / 10) % 10;
            int c = num % 10;
            if (a != b && a != c && b != c && num % 3 == 0) {
                System.out.println(num);
                count++;
            }
        }
    }
}
```

**Status :** Correct

**Marks :** 10/10