

# Rajalakshmi Engineering College

Name: GURU PRASAD V

Email: 240701160@rajalakshmi.edu.in

Roll no: 240701160

Phone: 7305453338

Branch: REC

Department: CSE - Section 7

Batch: 2028

Degree: B.E - CSE

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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**

```
import java.util.Scanner;
class Main{
    public static void main(String args[]){
        Scanner sc= new Scanner(System.in);
        int n=sc.nextInt();
        int count=0;
        for(int i=1;i<=9 && count<n;i++){
            for(int j=0;j<=9 && count<n;j++){
                if (j==i) continue;
                for(int k=0;k<=9 && count<n;k++){
                    if(k==i || k==j) continue;
                    int num= i*100 +j*10+k;
                    if(num%3==0){
                        System.out.println(num);
                        count++;
                        if(count==n) return;
                    }
                }
            }
        }
    }
}
```

**Status : Correct**

**Marks : 10/10**