

# Rajalakshmi Engineering College

Name: Deepak O  
Email: 241001042@rajalakshmi.edu.in  
Roll no: 2116241001042  
Phone: 7358625611  
Branch: REC  
Department: IT - Section 1  
Batch: 2028  
Degree: B.E - IT

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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 sc = new Scanner(System.in);
        int n = sc.nextInt();
        int count = 0;
        for(int i=1;i<=9;i++){
            for(int j=0;j<=9;j++){
                if(i==j)
                    continue;
                for(int k=0;k<=9;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