

# Rajalakshmi Engineering College

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Batch: 2028

Degree: B.E - AI & DS

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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 sc=new Scanner(System.in);
        int a=sc.nextInt();
        int temp;int num=100;
        while(a!=0){
            temp=num;
            int b=temp%10;
            temp=temp/10;
            int c=temp%10;
            temp=temp/10;
            int d=temp%10;
            boolean res=(b==c)|| (c==d)|| (b==d);
            if(res==false&&num%3==0){
                System.out.println(num);
                a--;
            }
            num++;
        }
    }
}
```

**Status : Correct**

**Marks : 10/10**