

# Rajalakshmi Engineering College

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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.*;
public class Main{
    public static void main(String[] args){
        Scanner ip=new Scanner(System.in);
        int n=ip.nextInt();
        int count=0;
        for(int i=102;i<=999;i++){
            int d1=i%10;
            int d2=(i/10)%10;
            int d3=(i/100)%10;
            if((i%3==0) && (d1!=d2 && d1!=d3 && d2!=d3)){
                System.out.println(i);
                count++;
                if(count==n){
                    break;
                }
            }
        }
        ip.close();
    }
}
```

**Status : Correct**

**Marks : 10/10**