# Rajalakshmi Engineering College

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Batch: 2028

Degree: B.E - CSE



# 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 line,s each line contains a valid 3-digit code.

240701222

2,0707222

240701221

240101221

Refer to the sample output for formatting specifications.

```
Sample Test Case
```

```
Input: 5
    Output: 102
    105
    108
    120
    123
    Answer
import java.util.*;
    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 \le 9; i++) {
           for (int j = 0; j <= 9; j++) {
              for (int k = 0; k <= 9; k++) {
                if (i != j && i != k && j \downarrow!= k) {
                  int code = 100 * i + 10 * j + k;
                  if ((i + j + k) \% 3 == 0) {
                     System.out.println(code);
                     count++;
                     if (count == N) {
                       return;
      }
}
}

Status : Correct
```

Marks : 10/10