

Rajalakshmi Engineering College

Name: Ganesh Raghav C
Email: 240701138@rajalakshmi.edu.in
Roll no:
Phone: 6382988302
Branch: REC
Department: CSE - Section 10
Batch: 2028
Degree: B.E - CSE

Scan to verify results



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 N = sc.nextInt();
        int count = 0;
        for (int i = 1; i <= 9; i++) {
            for (int j = 0; j <= 9; j++) {
                if (j == i) 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