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 line,s 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

```java
// You are using Java
import java.util.Scanner;
public class Main{
    public static void main(String args[]){
        Scanner inp = new Scanner(System.in);
        int n = inp.nextInt();
        int count =0;

        for(int i = 1;i<=9;i++){
            for(int j=0;j<=9;j++){
                for(int k=0;k<=9;k++){
                    if(i!=j && j!=k && k != i){
                        int num = i*100 + j*10 + k;
                        if(count != n ){
                        if(num%3==0){
                         System.out.println(num);
                         count++;
                        }
                        }
                    }
                }
            }
        }
    }
}
```