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
import java.util.Scanner;

class Main {
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        int num = sc.nextInt();
        for(int i=100; num>0; i++) {
            int n = i;
            int sum = 0;
            int d1 = n%10;
            n /= 10;
            int d2 = n%10;
            n /= 10;
            int d3 = n%10;
            sum = d1+d2+d3;
            if(sum%3 == 0 && (d1 != d2 && d1 != d3 && d2 != d3)) {
                System.out.println(i);
                num--;
            }
        }
        sc.close();
    }
}
```

Status : Correct   *Marks : 10/10*