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 n=sc.nextInt();
        int count=0;
        for(int i=1;i<=9 && count<n;i++){
            for(int j=0;j<=9 && count<n;j++){
                if(j==i) continue;
                for(int k=0;k<=9 && count<n;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) break;
                    }
                }
            }
        }
    }
}
```

Status : Correct   ***Marks : 10/10***