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;
class java{
    public static void main(String [] args){
        Scanner s=new Scanner(System.in);
        int n=s.nextInt();
        int num=100;
        while(n>0){
            if(num%3==0){
                int t=num;
                int a=t%10;
                t/=10;
                int b=t%10;
                t/=10;
                int c=t%10;
                if((a!=b)&&(b!=c)&&(a!=c)){
                    System.out.println(num);
                    num++;
                    n--;
                }
                else{
                    num++;
                }
            }
            else{
                num++;
            }
```

```
        }
      }
    }
```

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