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;
public class Main{
    public static void main(String[] args){
        Scanner S= new Scanner(System.in);
        int a=S.nextInt();
        int c=0;
        for(int i=100;i<=999 && c<a;i++)
        {
            int b=i/100;
            int d=(i/10)%10;
            int k=i%10;
            if(b!=d && d!=k && k!=b && i%3==0)
            {
                System.out.println(i);
                c++;
            }
        }

    }
}
```

Status : Correct   *Marks : 10/10*