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

Status : Correct   *Marks : 10/10*